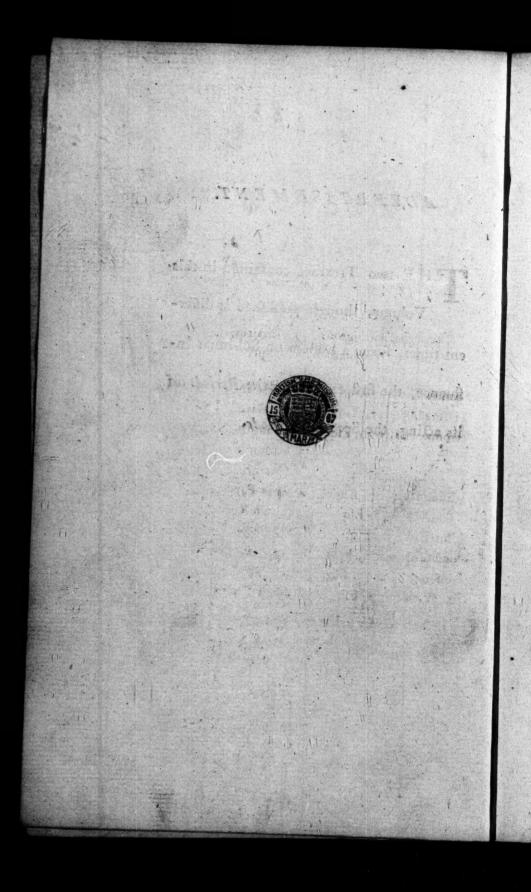
ADVERTISEMENT.

THE two Treatifes contained in this

Volume, though published at different times, form a System on Sol-lunar Influence, the first explaining the Periods of its acting, the Second its Mode.



TO THE HONOURABLE.

DIRECTORS

OFTHE

EAST INDIA COMPANY,

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THE Volume which I have the honour to lay before you comprehends the experience and reflection of almost twenty years spent in India, in the service of the Honourable Company, whose affairs you direct with prosperity and applause. It proposes a Theory which is new; and recommends a Practice which I flatter mysfelf has been attended with more than common success. It aspires to important improvements in medicine, especially in those climates where your authority and commerce extend; and naturally

EASTIMETA COMPA

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HONOURABLE SIRS,

I have the honour to be,

With the greatest respect,

Intothinal Netalitang C

Your most obedient,

And faithful servant,

FRANCIS BALFOUR

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TREATISE

ON

Putrid Intestinal Remitting Fevers.

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TREATISE

ON

Putrid Intestinal Remitting Fevers,

IN WHICH THE LAWS OF THE

FEBRILE STATE AND SOL-LUNAR INFLUENCE

BEING INVESTIGATED AND DEFINED,

ARE APPLIED TO EXPLAIN

THE NATURE OF THE VARIOUS FORMS, CRISES, AND OTHER PHENOMENA OF THESE FEVERS:

AND THENCE IS DEDUCED AND INSTITUTED

An improved Method of curing them.

By FRANCIS BALFOUR, M.D. S. R. M. E. S. H.

Eadem est veritatis et potestatis via et persectio: Haec ipsa ut FORM E verum inveniantur; ex quarum notitia sequitur contemplatio vera, et operatio libera. BACON.

E D I N B U R G H:
PRINTED BY WILLIAM SMELLIE.

MDCCXC.

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WARREN HASTINGS, Efg;

LATELY

GOVERNOUR GENERAL IN INDIA,

IN TESTIMONY

Of the zealous and liberal Patronage which he afforded, during his Government, to every Species of Knowledge and Improvement that was useful and humane,

THIS ENDEAVOUR

To introduce into the Philosophy of Medicine a New PRINCIPLE, and to erect upon it an improved Method of curing a Class of Diseases, which is, above all others, fatal to Europeans in warm Climates,

IS MOST RESPECTFULLY

DEDICATED AND PRESENTED

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THE AUTHOR.

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DEDICAMED AND MALE LETED.

PREFACE.

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IN a finall Treatife published at Calcutta in Bengal, about five years ago, I endeavoured to call the attention of the Medical Profession to several Propositions respecting The Influence of the Moon in Fevers; and concluded with advancing, "That the whole doctrine of the crises of severs might be explained from what I had established on this subject."

Although this proposition arose, rather from an anticipation of the course of nature, suggested by the discovery of several striking coincidences, than from any regular process of collecting and investigating the phenomena at large,

the real expression built to

yet, finding that it enabled me to explain with ease all the phenomena to which I applied it, I no longer doubted of its truth; and, being eager to communicate a discovery which promised to be of great and extensive use, I was from this motive induced to publish it in the impersect state in which it then appeared; expecting that it would instantly attract the notice of every physician, and that their united observations would soon supply materials for a complete demonstration.

Perceiving, however, upon the eve of my departure from India, that five years had elapfed without contributing any thing new to establish this discovery, and even that some opinions favourable to it had been very lately retracted by their respectable Author*, I instantly determi-

I mean Dr J. Lind, to refute whose new ideas on this subject it is sufficient to say, that the whole of the docrine

ned to employ the leifure of my voyage in arranging the observations and remarks I had made myself fince my first publication.

In this place, however, I must not neglect to observe, that the remarks published not long ago by Dr Jackson tend strongly to confirm the doctrine which we have advanced; and it has given me great satisfaction to learn, since my arrival in England, that Dr Cullen, in his public lectures, is disposed to admit, in a certain degree, the operation of an influence connected with the revolutions of the sun and moon.

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Confections and manufactured his ground, and

doctrine delivered in this Treatise is confirmed by observations made at Banaris, and other places, not less
than three hundred miles distant from the reach of the
tides.

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I.

Having deduced the general laws of action affecting the present subject from certain phenomena observed and selected in the course of my own experience, and having shewn how these laws may be applied to explain and predict the other phenomena, I have thus established, agreeable to the most approven principles of philosophising, a regular and connected system of theory, which cannot give way to any hypothesis or conjecture; but must maintain its ground, until it be shewn, that the shape and course of the natural phenomena upon which I have reasoned are merely imaginary, or that I have seen them through

^{*} Vide the Introduction to this Treatife.

through a falle medium, and that the interpretations and inferences to which they have led me are differred and delutive.

The fol-lunar influence *, which constitutes the most active and essential principle of this new system, by most of the Authors whom I have perused on the subject of severs, has been altogether overlooked, or disregarded; and, by the sew who have observed it, and paid it attention, the laws and extent of its action being very impersectly known, and altogether undefined, it remained till now without the support of demonstration, and stood upon no better ground than that of vague and general conjecture. If, therefore, I should assume to myself the merit

of

The influence which we have observed being evidently connected with the revolutions both of the sun and moon, we have therefore called it, in this Treatise, fol-lunar (Vide Parag. XVIII.).

of having first demonstrated the true theory of the paroxysms, forms, and crises of these severs, I do not conceive that I shall be guilty of any injustice to those who have gone before me.

Too partial, perhaps, to an improvement which I arrogate to myself, and therefore perhaps estimating its utility at too high a rate, I have compared its importance in medicine to that of the art of finding the longitude at sea in navigation.—Possessed of this, the navigator, having an exact idea of the bearing and distance of his port, and of all the dangers and occurrences that lie between, knows, with scientific certainty, when to crowd, and when to shorten sail, and how to steer his course.—Possessed of that, the physician, having an accurate idea of the different causes which determine the length or duration of his patient's fever, and which produce

from which occcur in its course, is acquainted with the leading circumstances that are required to enable him to form his practice on the principles of science, and to conduct his patient through the perils he encounters with ability and success.

Instructed and directed by the principles of this new system, I have formed the general rules which are laid down for conducting the cure of these severs, and have thus brought to a conclusion all that I proposed to deliver in the FIRST VOLUME of this Treatise.

In the beginning of June 1788 this practice was explained and recommended to the medical gentlemen who acted under me in the General Hospital at Calcutta; and the success with which it was attended gave me great satisfac-

tion. I also delivered, at the same time, to these gentlemen, a form for recording medical cases accommodated to the system we have explained; and, as it may be found convenient for suture observers, I have therefore annexed it to the end of this volume.

II.

and the Samuel of the total

Prefuming, from the known uniformity and steadiness of nature, that her laws and operations have ever been the same, we infer that the phenomena which these operations have produced have never differed from those that are to be observed at present; and thence we conclude, that the various histories of these severs which are to be met with in medical books

counts, more or less accurate, of the different FORMS that are produced by the action of The Sol-lunar Influence upon the Febrile State, in the manner that we have seen and described them.

This being established, we substantiate, as it were, and obtain possession, of The constant and immutable shape and course of the NATURAL FORMS of these Fevers, which we may employ as a fixed and infallible rule, to explain the intricacies, reconcile the contradictions, and supply the defects, that are to be found in these histories; and as a standard or citerion to estimate the merit of the different authors who have written on this subject, from the days of Hippocrates down to the present time, by shewing how nearly they have approached to them,

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or how far they have deviated from them in.

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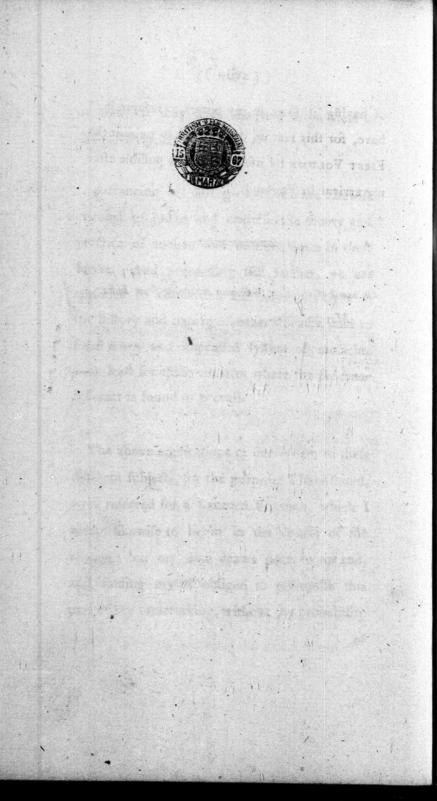
Advancing on this ground, we are likewise enabled to judge and criticise the theory and practice of ancient and modern times in these severs. And proceeding still farther, we are qualified to throw new and important light on the history and nature of other diseases, and to form a new and improved system of medicine—at least for those climates where the Sol-lunar Influence is found to prevail.

The above applications of our fystem to these different subjects, for the purposes I have stated, were reserved for a SECOND VOLUME, which I meant likewise to begin in the course of the voyage; but my time draws near to an end, and finding myself obliged to relinquish this part of my undertaking, without the probability

ply the defects, that are to be found in their

of having it foon in my power to resume it, I have, for this reason, determined to publish the FIRST VOLUME by itself as soon as possible after my arrival in England.

On board of the Kent Indiaman returning from India. May 20. 1789.



OPERIS CONSPECTUS.

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III. SECTION. Of the unribiled required in

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CORRIGENDA, &c. &c.

In the Preface,

Page ix.

The observation respecting Dr Cullen having been made since my arrival in England ought to have been inserted as a note at the bottom of the page.

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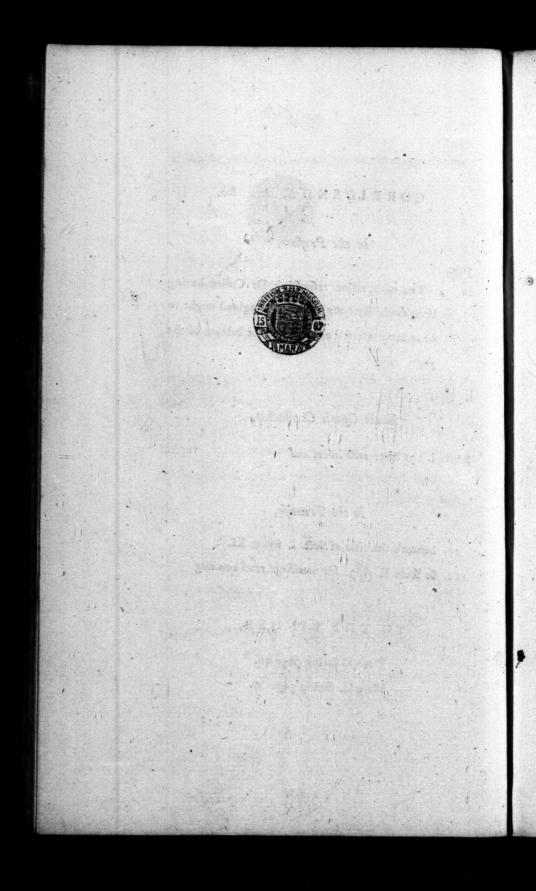
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25. beneath the title of Sect. I. infert XI.

111. in Rule II. 1. 3. for vomitings read vomiting

TO THE BINDER,

Plate I. facing page 46. Plate II. facing page 66.



INTRODUCTION.

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ipla if heshie regim invariantie descionarum natifa APHORISM I The roed which leads to frience leads alfo to art :

- MNIS philosophiae difficultas in eo versari videtur, ut a phoenomenis motuum investigemus
- vires naturael es ni nollipob lone anches il deiw , ani .

Toutelle hace

- The whole difficulty of philosophy confifts in de-
- ducing the powers of nature from the phoenomena
- c'of their action: 12 A de Let tiv growing presented

head Influence Thele aphording, therefore, prefelled by event flesgot A. P. H. Ig alle to reduce save vd

- ferent problems, which require to be relied in two cour-Deinde ab his viribus (Aph. I.) demonstremus
- phaenomena reliqua.'+

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secol, land Margal.

- be Vide Newton Praefatione Princip.
 - † Vide Newton, eodem loco.

From these powers (Aph. I.) we are then to ex-

INTRODUCTION

A P H. m.

- ' Eadem est veritatis et potestatis via et perfectio: haec
- · ipfa ut formae rerum inveniantur : ex quarum notitia
- ' fequitur contemplatio vera, et operatio libera.'*
 - 'The road which leads to science leads also to art;
- and it confifts in discovering the real forms of things;
- from which proceed clearness and certainty in judg-
- ing, with freedom and decision in acting. to the second

All the phaenomena of putrid intestinal remitting fevers may be referred to the force and action of two different powers, viz. the Febrile State, and the Sollunar Influence. These aphorisms, therefore, prescribed by great authorities in philosophy, suggest three different problems which require to be solved in prosecuting this subject.

† popular processored + PROB-

* Yide Bacon, Aph. et Confit. de Auxil. Ment. ad access. lum. Natural.



PROBLEM L

TO INVESTIGATE AND DEFINE THE LAWS

OF THE FEBRILE STATE, AND OF THE

SOL-LUNAR INFLUENCE, FROM THE

PHENOMENA.

PROBLEM II.

TO EMPLOY THE LAWS OF THE FEBRILE
STATE, AND OF THE SOL-LUNAR INFLUENCE, TO EXPLAIN THE NATURE OF THE
VARIOUS FORMS AND CRISES OF PUTRID
INTESTINAL REMITTING FEVERS; AND
OTHER PHENOMENA.

for box grishbon OBLEM III.

it is in vein east we expect any confiderable ad-

OBTAINED OF THE NATURE OF THE VARIOUS FORMS, &c. OF PUTRID INTESTINAL REMITTING FEVERS, TO DEDUCE AND INSTITUTE AN IMPROVED METHOD OF CURING THEM.

MALISOS TON

TO INVESTIGATE AND DITIONE

In profecuting the folution of these Problems, the following Aphorisms present themselves as rules to direct and regulate our conduct.

A P H. IV.

WILL ME STORY SHOP

- Frustra magnum expectatur augmentum in scien
 - tils ex superinductione et insitione Novorum super
- vetera, fed inflauratio facienda ab imis fundamentis,
- inifi libeat perpetuo circumvolvi in orbem, cum exili,
 - et quafi contemnendo progressi "ANA SANA
 - It is in vain that we expect any confiderable ad-
 - vancement in the sciences from introducing and erect-
- ing the New upon the Old. Improvement must be-
- gin from the lowest foundation; males we be fatif-
- fied to continue perpetually going round in a circle,
- with a small and contemptible progress' A

H. A. W. INSTITUTE AN IMPROVED METHOD

Vide Bacon, Nov. Organ. Aph. xxxi.

been led to advence in the source of this investigation, we that conclude win intility of Arith another Aphonism, laid down as a rule in philosophisms by the inter-

- Canones, sed tamen mobiles, sive axiomata inchoata,
- s quae nobis inquirentibus, non pronuntiantibus, se of-
- ferunt, prescribimus et constituimus. Utiles enim
- funt, fi non prorfus veri "."

-100 3

- But the propositions which we advance and pro-
- s pole are no more than moveable canons, or axioms
- only just begun; which present themselves to us, in
- the course of our inquiry, unprepared to pronounce
- finally. They will, however, be useful, although
- 4 they may not be perfect or firifally true.

* argumentum ladulflobis tollatur per hypotheles * †2

. In experimental philosophy, proposition's obtained

f from the phenomena by induction, ought to be held,

And, to befpeak from our readers a patient and candid examination of the different propositions we have

All opinions not deduced from the phenomena are

nere hypotheles - Vid. Newton. Vacip. pag. 530.

* Vid. Bacon Norm. Histor. Natur. ad Condend. Phi-

been led to advance in the course of this investigation, we shall conclude our introduction with another Aphorism, laid down as a rule in philosophising by the immortal Newton.

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quae noble inquieentibus, non progentientibus, fe of-

In philosophia experimentali, propositiones ex

"." how adhere hos if , that

- * phaenomenis per inductionem collectae, non obstan-
- tibus contrariis hypothefibus, pro veris aut accurate,
- s aut quam proxime haberi debent, donec alia occurre-
- rint phaenomena, per quae aut accuratiores reddan
 - tur, aut exceptionibus obnoxiae. Hoc fieri debet ne
 - s argumentum inductionis tollatur per hypotheses + +.
 - . In experimental philosophy, propositions obtained
- from the phenomena by induction, ought to be held,

And, to beforek from our renders a patient and can-

- f not-
- * thesis vocanda est.'
 - All opinions not deduced from the phenomena are
- * mere hypotheses.'-Vid. Newton. Princip. pag. 530.

† Vid. Newton. Princip. Regul. Philosophandi iv.

- notwithstanding any opposite hypotheses, as strictly,
- or very nearly true, until other phenomena have oc-
- curred, by which they may be rendered either more
- accurate or more exceptionable.
 - ' This is required, that reasoning founded on induc-

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TREATISE

ON

PUTRID INTESTINAL REMITTING FEVERS.

PROBLEM I.

TO INVESTIGATE AND DEFINE THE LAWS
OF THE FEBRILE STATE, AND OF THE
SOL-LUNAR INFLUENCE, FROM THE
PHÆNOMENA.

CHAPTER I.

OF A MEDICAL DIVISION OF TIME RE-QUIRED FOR INVESTIGATING AND DEFINING THE LAWS OF THE FEBRILE STATE, AND OF THE SOL-LUNAR IN-FLUENCE.

t.

DIVISIONS of time have been adopted in other fciences, accommodated to their feveral purpofes; and the following feems to be indifpenfably necessary

for describing the forms, and explaining the nature of these fevers; and, it is conceived, will be found well fuited in other respects to the purposes of medicine.

Medical Periods of Time are,

PUTRID INTESTRIAL

THE DAILY PERIODS, or such as occur in the space of a medical day, which is the space included between half an hour past eight in the morning, and the same time next day; and are,

- 1. The Diurno-Meridional Period, which includes about feven hours, viz. three and a half before, and as much after twelve o'clock mid-day;
- 2. The Evening Intermeridional Interval, which includes the space between the Diurno-Meridional and succeeding Nocturno-Meridional Period;
- 3. The Nocturno-Meridianal Period, which includes about feven hours, viz. three and a half before, and as much after twelve o'clock mid-night;
- 4. The morning Intermeridional Interval, which includes the space between the Nocturno-Meridional, and succeeding Diurno-Meridional Period;

THE LUNAR PERIODS, or fuch as occur in the space of a medical month; and are,

- 1. The Novilunar Period, which includes about feven days; viz. three and a half before, and as much after the change of the moon;
- 2. The Post Novilunar Interlunar Interval, which includes the space between a novilunar and its succeeding plenilunar period,
- 3. The Plenilunar Period, which includes about feven days; viz. three and a half before, and as much after the full of the moon;
- 4. The Post Plenilunar Interlunar Interval, which includes the space between the plenilunar and its succeeding novilunar period.

THE ANNUAL PERIODS are such as occur in the

- 1. The Verno-Equinoxial Period, which includes about feven lunar periods with their respective intervals; viz. three and a half before, and as much after the vernal equinox;
- 2. The Summer Inter-Equinoxial Interval, which includes the space between the verno-equinoxial and autumno-equinoxial periods;

- 3. The Autumno-Equinoxial Period, which includes about feven lunar periods with their respective intervals; viz. three and a half before and as much after the autumnal equinox;
- 4. The Winter Inter-Equinoxial Interval, which includes the space between the autumno-equinoxial and the verno-equinoxial periods.

TT.

I. The Daily Periods as they occur in coincidence with the lunar and annual periods in the course of a medical year, viz. from the beginning of the verno-equinoxial period to its annual return, constitute a great variety of periods differing greatly from one another in their nature and tendency; as we shall explain hereafter.

CHAP,

CHAP. II.

r

OF THE LAWS OF THE FEBRILE STATE.

SECTION I.

PUTRID INTESTINAL REMITTING FEVERS DIS-TINGUISHED AND ARRANGED.

III.

the description of the low nervous sever of authors; the more distinct and regular remitting sever, answering to the description of the common remitting sever of warm climates; and the more violent remitting severs, corresponding with the histories of contagious, pestilential, malignant, and putrid severs, common to jails, hospitals, ships, camps, &c. all resemble one another in the peculiar sever which distinguishes their stools, and marks the seat and nature of the disease; and likewise in all the other symptoms of the secret state, with very little difference, except in the degree

degree of their violence. They are all infectious; they prevail under the same circumstances of heat, moisture, confinement, &c; their laedentia and prodentiae are the same; they change reciprocally into one another; and the commencement, course, and termination of their meridional paroxysms are all similar, and connected in a similar manner with the daily, lunar, and annual periods.—(Vid. Ch. III. Sect. I. II. HI. IV.). I have therefore, for several years past, been induced to consider them all as putrid intestinal remitting severs.

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for obligat technica for a miscripe to

1. From their refemblance to the fevers just defcribed (III.), in respect of the feat and nature of the
disorder, the commencement, course, and termination
of the meridional paroxysms, and their connection
with the daily, lunar, and annual periods (Vid. Ch. III.
Sect. I. II. III. IV.); and almost every other circumstance; I have been led to imagine that all the disorders I have met with in India under the form of dysenteries; and likewise most of those under the form of
pleurisy and peripneumony, acute rheumatisms, and of
many

many other local affections attended with fever, were nothing more than so many different cases of putrid intestinal remitting fever, accompanied with different local affections; and to be distinguished from one another in this respect alone.

V.

M MOLTOTE

- 1. Agreeable to these ideas (III. IV.), all putrid intestinal remitting severs may be arranged under the following divisions.
- Putrid Intestinal Remitting Fevers without Local
 Affection.
- 2. Putrid Intestinal Remitting Fevers with Local Affection *.

binner is not that to expend on the war all parties

of annulove wine ton sist and then ; at I main And,

* Although I have specified and referred to these two classes such disorders only as occur most commonly, yet I suspect that many of those severs comprehended under the general idea of pyrexiae typhodes, whether attended with exanthemata, profluvia, or other local affections, will be found, by future observation, to belong

And, except in these respects where their different local affections require remedies peculiar to their nature, I conceive that the proper method of treating all putrid intestinal remitting fevers is exactly the same.

SECTION IL

THE ORIGIN AND PROGRESSION OF THE FEBRILE
STATE INVESTIGATED:

VI.

anithis fee eq. (45)

1. From paying a constant attention to the state of the stools in these disorders (V.) for a great number of years, I have been led to conclude, that, in all putrid intestinal remitting severs, the mucus which lines the intestines, especially the smaller, is insected, and in a putrifying state; and that this not only produces the peculiar

belong to no other. The puerperal Fever, and that obfeure lingering diforder, so frequent amongst children, and commonly called the worm fever, in every case that I have seen, appeared to belong to these divisions; and were cured in the same manner as putrid intestinal remitting severs,—(Vide Prob. III.). peculiar foetor which diffinguishes the feat and nature of the difease; but, being absorbed and mixed with the blood, becomes the cause of that remarkable change in the system which constitutes The Febrile State.

VII.

r. With regard to the introduction of the contagion which produces the difease, and its progress and operation, our sentiments are these:

That, in most cases, it is probable that the contagious matter is first conveyed into the stomach and bowels along with the faliva.

That it feems also established by experience, that the contagious matter, after being received into the stomach and bowels, may again be discharged, after remaining a considerable interval, without producing the

febrile

* We do not deny the production of putrid fevers by infectious matter, admitted directly into the blood by the absorbents on the surface of the fauces and lungs, and in other parts of the body, without passing into the stomach and intestines; and there is no doubt that severs are also produced by the absorption of putrid matter, generated on many occasions in the body itself, without any infection. febrile state; and thence we conclude, that the action of the contagious matter in the stomach and bowels is not sufficient to produce the febrile state, unless it be permitted to remain there for a certain length of time.

And, further, that the contagion is, in all cases, found to proceed from some putrifying or putrid body; and therefore may be supposed to operate by producing putrefaction, especially as the mucus of the intestines is a substance, from its animal nature, loose texture, and warm situation, in a singular manner exposed to this change; and, in every case where I have had an opportunity of observing it, in the stools, was in a putrifying state.

2. From these premises we conclude, first, that, in a certain time, the contagious matter operates, in the first instance, by infecting and corrupting the mucus of the intestines; and that, in all cases of putrid, intestinal, remitting severs, the mucus of the intestines is first of all corrupted. We conclude, secondly, that the corrupted mucus being constantly applied to the mouths of the absorbents which cover the intestines, the absorbin of a certain quantity of it is unavoidable; and consequently that a certain quantity is actually absorbed.

bed. Thirdly, We conclude, that the corrupted matter, thus absorbed, produces the febrile state; because we know that a fever similar to this is produced by the absorption of corrupted animal matter from other parts; because the febrile state does not take place in cases where the absorption is prevented by early evacuations; and because the febrile state, as far as I have been able to difcern, is always in proportion to the prefumable quantity and acrimony of the matter absorbed; that is to fay, that the degree of the febrile state is constantly increased when the contents of the bowels are long retained, and are become highly offenfive, and as constantly prevented from increasing, when they are maturely and completely evacuated. Fourthly, we conclude that the corrupted matter continues to fupport the febrile state, sometimes for a great length of time; and probably until fome favourable change, (Vide XXVIII. 8.) in the state of the body disposes it to be evacuated by the skin, kidneys, &c. or until it be counteracted by certain medicines *. And we conclude ultimately, that, by preventing the absorp-

tion

^{*} Particularly the Peruvian Bark.

tion of the corrupted matter from the intellines, by an early and complete evacuation of their mucus, and other contents at the beginning, the febrile flate, and all its confequences, may be effectually prevented from taking place.

SECTION III.

THE LEADING SYMPTOMS OF THE FEBRILE STATE ENUMERATED.

VIII.

1. The febrile state of putrid intestinal remitting fevers, shews itself by a peculiar putrid foetor of the stools, in which the mucus appears in a loose, frothy, putrifying state; by an increase of the heat of the body, restlessiness, and frequency of the pulse, denoting irritation; by costiveness, and other circumstances denoting a spalmodic constriction of the intestinal canal *; by appearances in the state of the urine, denot-

facility and make the state of the state of the sing

^{*} The tendency to costiveness, with a preternatural confirstion of the bowels, constitutes a diagnostic, so constant,

ing a spasmodic affection of the kidneys; by circumstances in the state of the perspiration, denoting a spasmodic affection of the skin; by a particular state of the tongue, denoting a spasmodic affection of the vesfels on its furface; by circumstances in the secretion of the bile, denoting a spasmodic affection of the secreting veffels, or of the ducts through which it paffes

into

flant, flriking, and diffinguishing, and so common to all the fevers I have ever met with, and throws fo great a light upon the nature and fymptoms of these disorders, and the method of curing them, that I should be greatly inclined to give it a place in the general character of the class of Pyrexia. But this is not all: From the observations I have made in India, not only upon men, but upon dogs and horses, I am much inclined to believe, that in all animals, even when in health, there prevails in the bowels, during the Lunar periods, a stronger tendency to contract, and to retain their faeces, than during the interlunar intervals. And should this opinion be confirmed by future observation, considering the great proportion of blood that is given to the intestines, we conceive that it will go a great length to account for the periodical plumpness of particular animals at the Lunar periods; and for many phenomena in the human oeconomy, particularly in the constitution of females, which have never been well understood.

into the intestines *; by disturbed sleep, stushing of the face, redness of the eyes, tendency to delirium and headach, and other symptoms, denoting a determination towards the head; and by a loss of appetite, exertion, and strength, with other symptoms, not so easily referrable to any obvious or immediate cause.

SECTION IV.

THE NATURE OF THE FEBRILE STATE INFER-

IX.

1. From the above history (VIII.) we are led to imagine, that the febrile state consists in a spasmodic affection

• At the very beginning of putrid intestinal remitting fevers, and also about the time of their final criss and termination, I have often observed copious discharges of recent bile; but, as the fever advanced, and remained at its height, such discharges have frequently ceased to appear; and I have been led to suspect, from these circumstances, that the passage of the bile into the duodenum, during this interval, was altogether stopt; and that there was a spasm on the dust, which did not yield until the fever began to give way, or tend towards a solution.

of the vascular system, excited and supported by the morbisic matter absorbed from the intestines into the blood, and manifesting itself in a particular manner in the state of the small vessels of the tongue, skin, and kidneys.

SECTION V.

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THE LAWS OF THE FEBRILE STATE DEDUCED AND DEFINED.

X.

1. Seeing that the spasmodic disposition and morbisic matter may each of them exist in a great variety of modes and degrees, all capable of being combined with each other, we deduce from these premisses the following axiom, with regard to the nature and power of the febrile state.

AXIOM

AXIOM I.

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The possible modifications of the febrile state are exceedingly numerous and different in their nature from each other; and confequently in their power to concur in producing and supporting meridional paroxysms. (XI.)

CALUARO STATE ALMENTA THE REDUCED

2. A fecond axiom respecting that change in the febrile state, by which the meridional paroxysms are determined to subside and come to an end, will be established hereafter (XXVIII.) has a left to sens their historic 1361

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CHAP. III.

OF THE LAWS OF THE SOL-LUNAR IN-PLUENCE.

SECT. I.

THE REST AREA TO SEPTEMBERS AND A WARREST

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OF THE ORIGIN OF THE MERIDIONAL PAROXYSMS OF THE FEBRILE STATE.

1. IN the course of a very careful attention to this fubject for many years, I have observed that, during the diurno-meridional and nocturno-meridional periods, the symptoms of the febrile state are liable to certain remarkable exacerbations, which very rarely attack at any other times; and which we have therefore denominated Diurno-Meridional, and Nocturno-Meridional Paroxysms. say provide the least the parties are the controlled as the

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SECT. II.

OF THE CONNECTION OF THE MERIDIONAL PAR-OXYSMS WITH THE MERIDIONAL PERIODS AND INTERMERIDIONAL INTERVALS; AND THEIR DIFFERENT TENDENCIES AT THESE TIMES.

XII.

as my experience extends, the nocturno-meridional paroxysms, whether they attack in the lunar periods, or
interlunar intervals, generally appear before the diurnomeridional paroxysms, and may be discovered in the
nocturno-meridional period disturbing the patient's rest,
and forming only obscure nocturno-meridional paroxysms, frequently not at first recognised by the patient himself; or scarcely recollected after the slumbers
which succeed it, in the morning intermeridional remission: Secondly, that in the course of the disease the
symptoms generally run considerably higher in the
nocturno-meridional paroxysms than in the diurnomeridional: And thirdly, that the nocturno-meridional
paroxysms

paroxysms often continue to return in the course of the interlunar intervals after the diurno-meridional paroxysms have ceased to appear.

2. From these observations (XI. 1. and XII. 1.) we are led to this inference, 'That the prevailing tendency of the meridional paroxysms is to attack in the diurno-meridional and nocturno-meridional periods, and not in the intermeridional intervals; and that it is the prevailing tendency of the nocturno-meridional paroxysms to appear sooner in the beginning of the disorder, to go to a greater height in its course, and to disappear later in the end, than the

XIII.

diurno-meridional paroxyfms.

- 1. In the evening and morning intermeridional intervals, the diurno-meridional and nocturno-meridional paroxysms are succeeded by their respective Intermeridional Remissions.
- a, With respect to the Evening Intermeridional Remissions, at the beginning of the disease, they are sufficiently distinct and evident; but during its progress, especially when the symptoms run high, the sever goes

on, and they are generally, in fuch cases, so obscure as not to be observed.

- 3. With regard to the Morning Intermeridional Remissions, they are in all cases more distinct and obvious, than those of the evening; and I have never seen the nocturno-meridional paroxysms, howsoever high the symptoms, run on into the succeeding diurno-meridional paroxysms, without some evident abatement or remission in the course of the morning intermeridional interval.
 - 4. From these circumstances (1. 2. 3.) we draw this inference, 'That the prevailing tendency of the re-
 - ' missions of the meridional paroxysms is to take place
 - at the intermeridional intervals, and not at the meri-
 - dional periods; and that it is the tendency of the
 - morning intermeridional remissions to be much more
 - s complete than those of the evening.'

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OF THE CONNECTION OF THE MERIDIONAL PA-ROXISMS WITH THE LUNAR PERIODS, AND INTERLUNAR INTERVALS; AND OF THEIR DIF-FERENT TENDENCIES AT THESE TIMES.

XIV.

- 1. Meridional paroxysms, whether diurnal or nocturnal, almost universally make their first appearance in one of the seven days included in the *lunar periods*, sometimes towards the beginning, sometimes towards the middle, and sometimes towards the end.
- 2. During the lunar periods, the nocturno-meridional paroxysms may generally be discerned earlier, as we have already observed (XII.), than the diurno-meridional. But these likewise soon appear, and become conspicuous; and, for the most part, after a sew returns,
 - * The lunar period in which the meridional paroxysms make their first appearance is denominated The First Lunar Period; and that which succeeds is denominated The Second Lunar Period; and so on.

any obvious abatement, through the evening intermeridional interval; and, being confounded with the fucceeding nocturno-meridional paroxysms, no remission is observed to take place until the morning intermeridional interval. The diurno-meridional paroxysm running on in this manner, forms, as it were, only one continued paroxysm; and this is the form which they generally assume in the course of the lunar periods; especially towards the 4th, 5th, 6th, and 7th day.

3. Whilft the meridional paroxysms almost always make their appearance (1.), and increase in their violence (2.) during the lunar periods, it is no less remarkable, that they seldom, and almost never, disappear

Diurno and nocturno meridional paroxysms, distinguished by the intervention of distinct intermeridional remissions, are denominated Single Meridional Paroxysms.

A diurno-meridional paroxysm, running into a nocturno-meridional paroxysm in the manner described in this paragraph, and forming with it, as it were, only one continued paroxysm, constitutes what we shall call in future A Double Meridional Paroxysm. pear or fubfide of their own accord, fo long as the lunar periods laft.

- 4. The meridional paroxysms, after having made their attack, and gone through the first lunar period, either disappear at once, on the commencement of the first interlunar interval*, or becoming much more slight and obscure, and generally nocturnal, diminish daily, and disappear gradually, in the course of the interval; or still running on in a moderate manner through the whole of the interval, enter into a second lunar period.
- 5. Having entered into a fecond lunar period, the meridional paroxysms suffer an exacerbation, nearly similar to that which they suffered in the first; and thus continue going on, till the commencement of the second interlunar interval.
- 6. Upon the commencement of the fecond interlunar interval, the febrile state, for the most part, disappears, and the meridional paroxysms cease to return;

or

^{*} The interlunar interval which succeeds the first lunar period is denominated The First Interlunar Interval; and that which succeeds the second lunar period is denominated The Second Interlunar interval; and so on.

or continue only for a few days obscurely, and subside gradually; and terminate, sooner or later, in the course of the interval.

7. Although the more common course of the meridional paroxysms is to cease in the first and second interlunar intervals, it is, however, not uncommon for them to continue through many more fuccessive lunar periods, and interlunar intervals, with the alternate exacerbations and abatements that are peculiar to each stage. In cases of this kind, the symptoms of the meridional paroxyfms becoming less violent, the lunar periods are confequently lefs strongly distinguished. And, in the interlunar intervals, it often happens that a feverish quickness in the pulse is the only evident symptom that remains of the febrile state; and shews that the disease, not being come to a final termination, lurks within, and that there is still reason to apprehend a return or relapfe. But, however obscurely the symptoms may proceed, they may, in most cases, be traced by a proper attention; and I have marked their progreffion to a 3d, 4th, 5th, 6th, and even 7th interlunar interval.

8. From

8. From these observations respecting the connection of the meridional paroxysms with the lunar periods, we are led to the following inference: 'That the prevailing tendency of the meridional paroxysms is to make their attack, to increase in their violence, and to continue during the course of the lunar periods; and that, as far as we have been able to discern, there is no difference, in this respect, between the novilunar and plenilunar periods.'

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- 1. Meridional paroxysms fometimes make their attack in the interlunar intervals *; but seldom in pro-
- * The interlunar interval in which the meridional paroxysms make their first attack, is denominated The Exciting Interlunar Interval; and the lunar periods, and interlunar intervals subsequent to it, are distinguished as first, second, third, &c. in the order in which they occur, just as in the case of those making their first attack in the lunar periods:—by which means the course, duration, and forms of these severs, whether they attack in the interlunar interval, or in the lunar period, are described exactly in the same terms, and without any consusion; as will be seen hereaster in the table of forms.

periods; and running on, in different cases, for a longer or shorter time, just like meridional paroxysms which attack in the lunar periods, terminate also, as these do, sooner or later, in the different interlunar intervals.

- 2. But it is remarkable that, when the meridional paroxysms make their first attack in the interlunar intervals, it is generally towards the end of the interval, and not more than two or three days before the beginning of the lunar period; and I have seldom observed them making their first appearance at the beginning, and almost never at the middle of the interval.
- 3. Examples of meridional paroxysms beginning in the interlunar intervals happening seldom in proportion to those which begin in the lunar periods, lead to a different inserence with respect to their tendency; and only authorise us to say,
- That there is likewife a tendency in the meridional paroxysms to attack in the interlunar intervals, which, however, compared to that which prevails in the lunar periods, is weak and inconfiderable; and that their prevailing tendency at these junctures in-

- clines them ftrongly to defer their attack, to abate in
- their violence, and finally to terminate and disap-
- pear. In the post-novilunar and post-plenilunar in-
- tervals, the tendency feems to be equal; and in both
- it appears to be greater towards the end and begin-
- a ning than in the middle.

SECTION IV.

OF THE CONNECTION OF THE MERIDIONAL PARO-XISMS WITH THE EQUINOCTIAL PERIODS AND THE INTER-EQUINOCTIAL INTERVALS; AND THEIR DIFFERENT TENDENCIES AT THESE TIMES.

XVI.

t. Putrid intestinal remitting severs have their meridional paroxysms much more violent and obstinate during the equinoctial periods than the inter-equinoctial intervals; and this is far more remarkable in the autumno-equinoctial, than in the verno-equinoctial period.

- 2. From what has been faid (1.), it is to be inferred,
- That the tendency of the meridional paroxylms to
- be violent, and to continue, in the verno-equinoc-
- tial and autumno-equinoctial periods, is much greater
- than in their respective inter-equinoctial intervals;
- and especially in the autumno-equinoctial periods."

XVII.

- 1. With respect to the tendency of the inter-equinoctial intervals, my observations do not enable me to make any accurate comparison; and I can only say, That, during both, it is inferior to that which pre-
 - SECT. V.

vails at the equinoctial periods.'

THE LAWS OF THE SOL-LUNAR INFLUENCE DE-

XVIII.

1. These different prevailing tendencies (XII. 2. XIII.
4. XIV. 8. XV. 3. XVI. 2. XVII. 1.) so remarkable

in the history of meridional paroxysms being constantly and invariably connected with certain periods of time. during which the fun, moon, and earth are particularly situated, with regard to each other, we are naturally led to refer them to fome power or influence connected with the relative positions of these bodies; which having affumed as an established principle, or law of nature, we denominate The Sol-Lunar Influence : without pretending to fay whence it proceeds, where it exists, or how it operates. We must however suggest, that, as the periodical revolutions which are observed in the state of the meridional paroxysm, coincide in a striking manner with the revolutions or paroxyims in the state of the tides, it is more than probable that they are produced and governed, by the power and energy of a common caufe.

2. Estimating the power of the sol-lunar influence, by the effects which it produces upon the sebrile state at different periods, we are led to the sollowing conclusions; which we think may be assumed for the present as so many axioms or laws respecting its force and action.

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AXIOM

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The force of the fol-lunar influence is much greater during the meridional periods than their respective intermeridional intervals, and seems to be somewhat greater during the nocturno than their respective diurno-meridional periods; and somewhat greater during the evening than the morning intermeridional intervals.

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The force of the fol-lunar influence is much greater during the lunar periods, than their respective interlunar intervals; and during the novilunar and plenilunar periods it is very nearly the same; and also during their respective interlunar intervals, at the beginning and end of which it seems greater than in the middle.

HOIKA

AXIOM III.

The force of the fol-lunar influence is considerably greater during the equinoxial periods than their respective inter-equinoxial intervals; and somewhat greater during the autumno-equinoxial than the verno-equinoxial periods.

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REMITTING PRIVERS.

PROBLEM

PROBLEM II.

TO EMPLOY THE LAWS OF THE FEBRILE STATE, AND SOL-LUNAR INFLUENCE TO EXPLAIN THE NATURE OF THE VARIOUS FORMS AND CRISES OF PUTRID INTESTINAL REMITTING FEVERS; AND OTHER PHAENOMENA.

CHAPTER I.

OF THE FORMS OF PUTRID INTESTINAL REMITTING FEVERS.

SECTION I.

OF THE DIVERSITY OF THEIR FORMS WITH RE-SPECT TO LENGTH OR DURATION.

XIX.

1. THE meridional paroxysms attacking in the manner we have described (XI. XII. XIII. XIV. XV. XVI.), and continuing, in different cases, for a greater greater or smaller number of days form different groups, or successions of paroxysms, which constitute fevers of various lengths or durations, from severs of one day to severs of one hundred, or upwards; in the manner represented in the Synoptical Table (Plate I.). It is probable that severs run on occasionally to a much greater length than one hundred days; but two or three of about this length are the longest that I have traced with any certainty.

2. As no meridional paroxysms ever pass the commencement of these interlunar intervals in which they
terminate, without some sudden and conspicuous abatement
or remission in the degree of their violence, such as does not
occur at other times, those remarkable changes are apt to
be considered as critical and final solutions of these severs; and we have every reason (XIV. 4. XV.) to
believe that they have, in most cases, both in ancient
and modern times, suggested and fixed the idea of
their length and duration.

Upon this ground, I have exhibited, in the Synoptical Table, (Plate I.) fuch varieties only, in the duration of fevers, as are supposed to be limited; and formed by the abatement of their violence, on the first day of that interlunar interval, in which they terminate; defining, at the same time, that it may be understood that the meridional paroxylins seldom ccase or terminate all at once, immediately on the commencement of the final interlunar interval; but often continue to return, as we have already observed, (XIV. 4. 6. 7. XV. 1. 3.), in a more moderate degree; and at last subside and disappear in the course of it, gradually and imperceptibly.

Prefuming that Hippocrates and his followers calculated the durations of fevers by the space of a natural day, or twenty-four hours, I have endeavoured to preferve the same measure. And it is hoped that this Table (Plate I.) will answer the purpose of giving a tolerably distinct idea of the manner in which the different forms of these severs are connected with the lunar periods and interlunar intervals. But it is to be remembered that every interlunar interval actually contains about eighteen hours and twenty-two minutes, more than the seven days which are given to them in the Table. A due allowance, therefore, must be made for this desiciency

in attending to the course of these severs through the interlunar intervals, and in reckoning their real duration exactly. To avoid this defect in our Table, it would have been necessary to adopt such a division of time, less than a natural day, as would have divided the real space of time included in the interlunar intervals without a fraction. But, as that would have introduced new terms, and a lefs familiar mode of measuring the duration of fevers; rather than subject our system to this inconveniency. I have chosen to fall short in point of precision. And, when it is known that Hippocrates likewise found it impossible * to measure the length of fevers exactly by entire days; and that his account of them, which is that which I am to confider chiefly in profecuting this subject, must also be liable to a sirelieff. therefore be always attached fortis discovering

^{*} Hippocrates expresses himself upon this subject in

^{&#}x27; tegris diebus exacte numerari; neque enim annus et

[&]quot; menses integris diebus numerari possunt."

But none of these can be measured exactly by complete days; neither can the year itself, nor even months.—Hippocrates Praenotiones, Sect. XX.

milar defect, we prefume that the latitude we have taken will appear to be of less consequence, especially as we have pointed out a method by which it may be eafily adjusted.

It is further to be observed, that this Table supposes the commencement of the lunar periods and interlunar intervals to happen nearly about the beginning of a natural civil day; and is therefore calculated to represent the formation of severs at one fixed period of time only. But it will naturally occur, that no fixed Table can represent in a proper manner the constant shifting of the commencement and termination of such severs from one time of the day to another, depending on the varying coincidence of the lunar with the diurnal and nocturnal meridional periods; and that this variation must therefore be always attended to in discovering and calculating the real duration of severs exactly.

In consulting this Table, it is necessary to remember the following circumstances.

1st, That fingle dots represent fingle meridional pa-

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lead of the fore the party for the regular and a

2d, That double dots represent double meridional

3d, That the whole of the dots upon any one horizontal line represent a complete group or succession of paroxysms constituting a fever.

4th, That the first dot on the left represents the first meridional paroxysim of the group.

5th, That the first dot on the right represents the final meridional paroxysm of the group.

6th, That, although fingle meridional paroxysms will appear, from the Table, to be confined to the interlunar intervals, and double meridional paroxysms to the lunar periods, it will however be understood, from what has been already said on this subject (XIV.), that this is not strictly or invariably true; and that they are represented here in this manner only to denote their prevailing or general tendency and course.

3. As the meridional paroxysms of severs never fail to show some very conspicuous abatement, in the degree of their violence, not only at the commencement of the interlunar intervals in which they terminate, but likewise at the commencement of every interlunar interval that occurs previously to the final one in the course of the disorder, these remarkable abatements, in the sequel, shall be called The Interlunar Crises; which being distinguished according to the order in which they occur, will be denominated, First, Second, Third, Fourth, S.c. Interlunar Crises. But, to distinguish the last or terminating interlunar crises, in a particular manner, from others which may precede it in the course of the fever, that shall be denominated, in the sequel, The final Interlunar Crises, and these Intermediate Interlunar Crises.

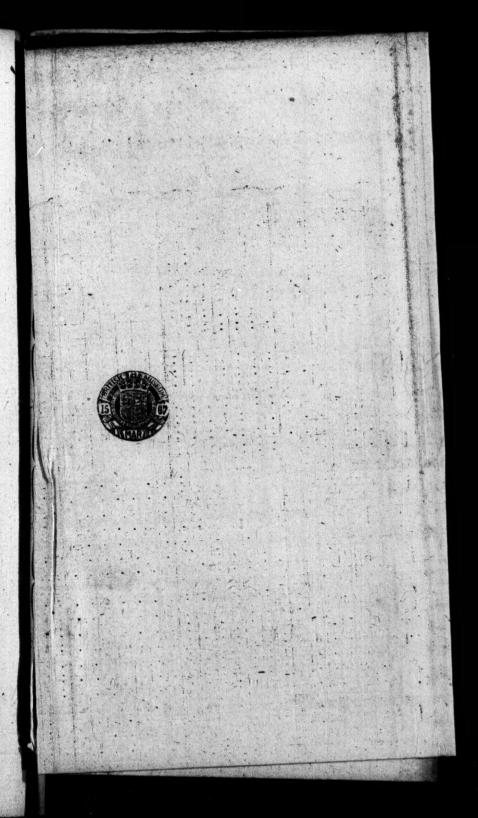
4. And, in order to distinguish the interlunar interval in which the final interlunar crisis takes place from that in which an intermediate interlunar crisis happens, the former shall be called a Final, and the latter an Intermediate Interlunar Interval.

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It is more than probable that the erifes which Hippocrates describes by the words imperfecte judicabantur, were nothing more than intermediate interlunar crifer; and that those to which be applies the terms perfecte
judicabantur were final interlunar crifes.—Vide Popular,
ubique.



Constructed to show the different Forms of Putrid, Intestinal Remitting, Fevers,

and the manner in which they are Counceted with the Lunar periods, and Interlunar Intervals.

The state of the s			
	Interlunar Interval Lunar Period Interlunar Interval Lunar Interval Lunar Interval Lunar Interval Interva		
Subsiding on the commencement of the 1st Interlunar Interval, form	2 2 3 4 3 6 7 1 2 3 4 5 6 7 1		I days
Afront Groups, or Successions of paroxysms, in the manner represented by		Constituting Fevers of	3 days 4 days 5 days 6 days 7 days
is its and paroxysms attacking on the different days of the Intertunar Interval, is its identification on the commencement of the I Intertunar Interval form different up, or Successions of paroxysms, in the manner represented by the dotts on its Interval times in this Division of the Table		Constituting Fevers of	8 days 9 days 10 days 11 days 12 days 13 days 14 days
inthonal paroxysms attacking on the different days of the Lunar period, and saiding on the commencement of the 2d Lunar Interval, form different Gro- ger Successions of puroxysms, in the manner represented by the dotts on different Horizontal lines in this Division of the Table.		Constituting Fevers of	15 days 16 days 17 days 18 days 19 days 20 days 21 days
dional paroxysms attacking on the different days of the Interlunar valuad Substiting on the commencement of the 2ª Interlunar Interval, different Groups, or Successions of paroxysms, in the manner represent the dotts on the different Horizontal lines in this Division of the Table.		Constituting Fevers of	22 day 23 day 24 day 25 day 26 day 27 day 28 day
dional paresysms attacking on the different days of the Lunar period, subsiding on the commencement of the 3 Interhinar Interval formediffer in ones, or Successions of paroxysms, in the manner represented by the on the different Horizontal lines in this Division of the Table.		Constituting Hevers of -	29 day 30 day 31 day 32 day 33 day 34 day 35 day
tional paroxy sms attacking on the different days of the Interhinar Interval, absiding on the commencement of the 3 Interhinar Interval form different sor Successions of paroxy sms, in the manner represented by the dotts on facent Horizontal lines in this Division of the Table.	THE REST WAS DEED TO SEE THE REST WHEN THE REST WAS DEED TO SEE THE REST WAS DEED TO SEE THE REST WAS DEED TO SEE THE REST WAS DESCRIPTION OF	Constituting Fevers of	36 day 37 day 38 day 40 day 40 day 41 day 42 day

THEORET

The fluction force of the form influence as-

duciding and as oversting, in all its various dis

OF THE CAUSE OF THE DIVERSITY OF THEIR FORMS WITH RESPECT TO LENGTH OR DU-

eigds and intertunae interessis, and fusporting these in different calculates as flooter or larger,

1. Having shown that the meridional paroxyims are produced by the action of the fol-lunar influence upon the febrile state (XVIII.), and that, whilst the former is constantly changing from one degree of force to another, the latter is liable to an infinite variety of modifications, differing from each other with respect to their tendency to attack and terminate (X₁), we infer from these premises the following universal proposition respecting the various duration of these fevers.

9 The ground hi which ther are allowed to factors

THEOREM

Synoptical Those, Plate L.

Liver (There and IV).

THEOREM I

The fluctuating force of the fol-lunar influence coinciding and co-operating, in all its various degrees, with all the various modifications of the febrile state, excites meridional paroxysms attacking in all the different days of the lunar periods and interlunar intervals, and supporting these in different cases for a Shorter or longer space, at length allows them to subside and terminate * at the commencement of the interlunar intervals; sometimes of the 1st, sometimes of the 2d, sometimes of the 3d, sometimes of the 4th, fometimes of the 5th, sometimes of the 6th, and fometimes of the 7th; and thus forms groups or fuccessions of meridional paroxysms constituting fevers, differing from one another in their length or duration, in the manner represented in the Synoptical Table, Plate I.

SECT.

The manner in which they are allowed to fublide and terminate will be more particularly explained afterwards (Theorem IV.).

SE C T. III.

OF THE DISPARITY OF THEIR FORMS WITH RE-SPECT TO THE FREQUENCY OF THEIR OCCUR-RENCE.

XXI.

1. Concerning the various forms of fevers exhibited in the Synoptical Table, it is remarkable that fome of them occur much more frequently than others; and, when confidered comparatively in this view, they naturally divide themselves into those which attack in the lunar periods, and those which attack in the interlunar intervals.

G ARTICLE

ARTICLE I.

OF THE SUPERIOR FREQUENCY OF THE CLASSES IN GENE-RAL WHICH ATTACK IN THE LUNAR PERIODS, COMPARED WITH THOSE WHICH ATTACK IN THE INTERLUNAR IN-TERVALS.

XXII.

1. With respect to the classes which attack in the lunar periods, they are, taken together, far more frequent than those which attack in the interlunar intervals.

OF THE SUPERIOR FREQUENCY OF PARTICULAR CLASSES WHICH ATTACK IN THE LUNAR PERIODS, COMPARED WITH THE OTHER CLASSES OF THIS DIVISION.

XXIII.

1. The division of fevers attacking in the lunar periods comprehends under it the following subdivisions or classes, which likewise differ from each other in point of frequency.

The

The 1st class comprehends fevers of about 1, 2, and 3 days; which are rare and uncommon, compared with those of the 2d and 3d class.

The 2d class comprehends fevers of about 4, 5, 6, and 7 days; which are much more frequent and common than those of the 1st and 4th classes.

The 3d class comprehends fevers of about 15, 16, 17, 18, 19, 20, and 21 days; which are more frequent and common than those of any other class.

The 4th class comprehends fevers of about 29, 30, 31, 32, 33, 34, and 35 days, and all others of a greater length, formed by terminating in the 4th, 5th, 6th, and 7th interlunar intervals; all which are very rare and uncommon.

2. The application and use of the inferences to be drawn from ascertaining the relative frequency of these different classes will appear presently (XXVIII.).

A VARIATED RESIDENT. E

ART.

ART. II.

OF THE INFERIOR FREQUENCY OF THE CLASSES IN GENE-RAL WHICH ATTACK IN THE INTERLUNAR INTERVALS, COMPARED WITH THOSE WHICH ATTACK IN THE LUNAR PERIODS.

XXIV.

1. With respect to the classes which attack in the interlunar intervals, they are, taken together, far less frequent than those which attack in the lunar periods.

OF THE SUPERIOR FREQUENCY OF PARTICULAR CLASSES
WHICH ATTACK IN THE INTERLUNAR INTERVALS, COMPARED WITH OTHER CLASSES OF THIS DIVISION.

XXV.

1. The division of fevers attacking in the interlunar intervals comprehends under it the following subdivisions or classes, which differ likewise from each other in point of frequency.

The

The 1st class comprehends fevers of about 8, 9, 10, 11, 12, 13, and 14 days; and are the most frequent of this division.

The 2d class comprehends fevers of about 22, 23, 24, 25, 26, 27, and 28 days; and are rather less frequent, I think, than the 1st.

The 3d class comprehends fevers of about 36, 37, 38, 39, 40, 41,42 days, and all others of a greater length formed by terminating in the 4th, 5th, 6th, and 7th interlunar intervals; and are least frequent.

2. The application and use of the inferences to be drawn from ascertaining the relative frequency of these different classes will appear presently (XXXI).

ART. III.

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AN ATTEMPT TO FIX WITH ACCURACY THE COMPARATIVE FREQUENCY OF THE DIFFERENT CLASSES UNDER THESE TWO DIVISIONS (XXII. & XXIV).

XXVI.

1. Not having ascertained, by any accurate record, the exact proportion which the number of happenings under under these two divisions and their subordinate classes bear to each other, I can at present only endeavour to supply this defect, by delivering the general idea that I have formed upon this subject, from what I have seen myself in the course of my practice; and what I am consident approaches nearly to the truth with respect to the superior frequency of the classes I have pointed out.

2. In the following Table, 100 is affumed to reprefent the whole amount of the happenings under both divisions (XXII. and XXIV.); and the supposed number of happenings under each class or subdivision being placed opposite to it, we behold, at one view, not only the proportions which the happenings of each class bear to each other, but that which they bear, either separately or collectively, to the whole.

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THE FIRST DIVISION, viz. Those attacking in the lunar periods comprehends the following classes or subdivisions.

The 1st Class, comprehending fevers of	l	ı	1
1, 2, and 3 days, the happenings under			
which are supposed to be as	4		
The 2d Class, comprehending fevers of	17		
about, 4, 5, 6, and 7 days, the happenings			ı
under which are supposed to be as	35		
The 3d Class, comprehending fevers of			
about 15, 16, 17, 18, 19, 20, and 21 days,		(0.)	
the happenings under which are supposed	-5		
to be as	45		
The 4th Class, comprehending fevers of			
about 29, 30, 31, 32, 33, 34, and 35 days,			
with others of a greater length, formed by			
terminating in the 4th, 5th, 6th, and 7th			
interlunar intervals, the happenings of		are.	
which are supposed to be as	6	90	

THE SECOND DIVISION, viz. those attacking in the interlunar intervals, comprehends the following classes or subdivisions.

Carried over	1	90	
The 1st class, comprehending fevers of			
about 8, 9, 10, 11, 12, 13, and 14 days,			
the happenings under which are supposed			
to be as	7		
The 2d class, comprehending fevers of			
about 22, 23, 24, 25, 26, 27, and 28 days,			
the happenings under which are supposed			
to be as	2		
The 3d class, comprehending severs of			
about 36, 37, 38, 39, 40, 41, and 42 days,	ke na		
and others of a greater length, formed by	14		10
terminating in the 4th, 5th, 6th, and 7th	12.00		
interlunar intervals, the happenings of			
which are supposed to be as	1	10	
the two is a compact are given by the constant		-	100

1. The advantage to be derived from ascertaining, with arithmetical precision, the comparative frequency of the different classes under these two divisions, will appear from the purpose to which we have applied them, in endeavouring to find out the causes that have occasioned the forms of 4, 7, 11, 14, 17, and 20 days, to be considered as more common than any other; and as the principal and proper forms of these severs (Vid. XXXIII.).

2. By affuming the relative frequency of those different classes, as if it were already precisely ascertained in numbers, we gain ultimately another advantage, which is this, that, although we may be considerably remote from the truth at present, yet we shall certainly, by this step, approximate to it by degrees, and obtain an exact knowledge of it at last. For, if the frequency of any class is assumed either too high or too low, such errors will soon be corrected by more accurate and extensive observation, and every consequent error that may have proceeded from these, will be rectified also. But, were we to express the relative frequency of these classes by no specific number, and were to content ourfelves

felves with the general and unlimited terms of language, such as frequent, less frequent, more frequent, &c. without a reference to any defined and established standard in numbers, we could never expect to gain the advantage I have pointed out; and could never obtain more than a vague and general idea of the truth, totally unsit for the purposes of philosophy.

ART. IV.

FORMS, NAMELY THOSE OF 4, 7, 11, 14, 17, AND 20 DAYS, BELONGING TO THESE DIFFERENT CLASSES, COMPARED WITH THE OTHER INDIVIDUALS OF THESE CLASSES.

XXVII.

1. It is further of importance to observe, that, since the days of Hippocrates, certain individual forms, under these different subdivisions, or classes, (XXIII. and XXV.), have been considered as far more common than any other; and, as it were, the principal and proper forms of these severs. These individual forms are fevers

fevers of 4, 7, 11, 14, 17, and 20 days; and I shall have occasion to observe hereafter (XXXIII.), that there is some reason to suppose that the preference given to these forms may have originated from experience, and have its soundation in nature.

XXVIII.

- 1. These facts being premised, respecting the comparative frequency of the different divisions, classes, and
 individuals of the forms of putrid intestinal remitting
 fevers, we thence derive a more intimate acquaintance
 with the nature of the febrile state; and are thus enabled
 to deliver a more specific and satisfactory account of the
 cause of that diversity which appears in the length and duration of the different forms of these severs, than we were
 able to give before in Theorem I.
 - For making this attempt, it is necessary to attend to the following circumstances, which will be perfectly under-

understood by a fingle glance thrown upon the Table.
of Forms, (Plate I.)

1st, That the first class, or fevers of about 1, 2, and 3 days, which are rare and uncommon (XXIII.) are formed by attacking on the 7th, 6th, and 5th days of the lunar periods, and by terminating on the commencement of the first interlunar interval.

2d, That the fecond class or fevers of about 4, 5, 6, and 7 days, which are frequent and common (XXIII), are formed by attacking on the 4th, 3d, 2d, and 1st day of the lunar period; and terminating on the commencement of the first interlunar interval.

3d, That the third clase, or fevers of 15, 16, 17, 12, 19, 20, and 21, which are more frequent than any (XXIII.) are formed by attacking on the 7th, 6th, 5th, 4th, 3d, 2d, and 1st days of the lunar period, and by terminating on the commencement of the second lunar interval.

Ath, That the fourth class or severs of about 29, 30, 31, 32, 33, 34, and 35 days, and upwards, which are also rare and uncommon (XXIII.), are formed by attacking on the 7th, 6th, 5th, 4th, 3d, 2d, and 1st days

of the lunar period, and terminating on the commencement of the third, fourth, fifth, fixth, and feventh interlunar intervals.

3. In contemplating these facts, whilst we perceive on the one hand that fevers which attack on the 7th, 6th, and 5th days of the lunar period, and which therefore produce, prior to the commencement of the first interlunar interval, fevers of 1, 2, and 3 days only, are exceedingly rare and uncommon; and on the other hand, that the fevers which attack on the 4th, 3d, 2d, and 1st days of the lunar period, and confequently produce, prior to the commencement of the first inter-Junar interval, fevers of 4, 5, 6, and 7 days, are frequent and common; and still farther, that fevers which attack in all the different days of the lunar period, and run on to the commencement of the fecond interlunar interval producing fevers of about 15, 16, 17, 18, 19, 20, and 21 days are more frequent and common than any; we are naturally led to infer from thele circumfrances, that the abatement or remission of the fol-lunar influence on the commencement of the interlunar interval, is able to produce a termination or final crisis in most

most cases of sever that have continued for the space of 15, 16, 17, 18, 19, 20, and 21 days; that it is also frequently able to effect this in cases where the fever has continued for 4, 5, 6, and 7 days; but feldom, and almost never able in cases where it has continued no longer than 1, 2, or 3 days. Conceiving, however, that the abatement or remission of the fol-lunar influence. at the commencement of the interlunar intervals is uniform on all fuch occasions, and very nearly the fame, and incapable of producing fuch remarkable variations as these, we therefore conclude that the final interlunar crises of these severs do not depend, solely, upon the abatement or remission of the fol-lunar influence. at the commencement of the interlunar intervals; but that some other auxiliary principle is required to coincide and co-operate with it at these junctures, in producing thefe effects.

4. The auxiliary principle required to coincide and co-operate with the remiffion of the fol-lunar influence at the commencement of the interlunar intervals, in effecting the final interlunar crifes, we conceive to be fome particular falutary disposition produced in the state

state of the body during the course of the disease; and assuming this as an established principle, we shall call it in future, The Critical Maturity of the Febrile state; the nature of which we shall endeavour to explain more fully presently. (8.)

5. From these discussions we obtain the following general proposition with respect to the existence, and the action of that particular property in the sebrile state, denominated its Critical Maturity.

THEOREM II.

That the final interlunar crifes of these severs do not depend solely upon the abatement or remission of the sol-lunar instructed at the commencement of the interlunar intervals; but that an auxiliary property of the sebrile state, denominated its Critical Maturity, is required to coincide and cooperate with it in producing these effects.

6. Estimating the power of the critical maturity by the effects which it seems to produce in the different instances that have been stated (3), we are led to the following conclusions which we think may be assumed for the present, as the IId. Axiom or Law which we promised to establish (X. 1.) respecting the force and action of the sebrile state in determining meridional paroxysms to subside and come to an end.

AXIOM II.

The critical maturity of the febrile state very seldom arrives at that degree which is necessary for producing the final interlunar criss in less than 4 days; and, on the other hand, seldom requires more than 21 days.

7. Combining the proposition we have thus obtained (5.) with respect to the force and action of the critical maturity of the febrile state, with that which we formerly advanced in general terms (XX. and Theor. I.), respecting the operation of the sebrile state, and sluc-

tuating force of the fol-lunar influence, in producing the different forms of putrid intestinal remitting fevers, we constitute another proposition upon this subject, more specific and satisfactory than the former.

THEOREM III

The fluctuating force of the fol-lunar influence coinciding and co-operating in all its various stages and degrees, with the various modifications of the febrile state, excites meridional paroxysms to attack in all the different days of the lunar periods and interlunar intervals, and supports them until the commencement of different interlunar intervals; at which junctures the critical maturity of the febrile state happening to concur with the periodical decline of the sol lunar influence, these meridional paroxysms then subside and come to a sinal interlunar criss; and thus form different groups, or successions of paroxysms, constituting severs of various length or duration (Vid. Table Plate II.).

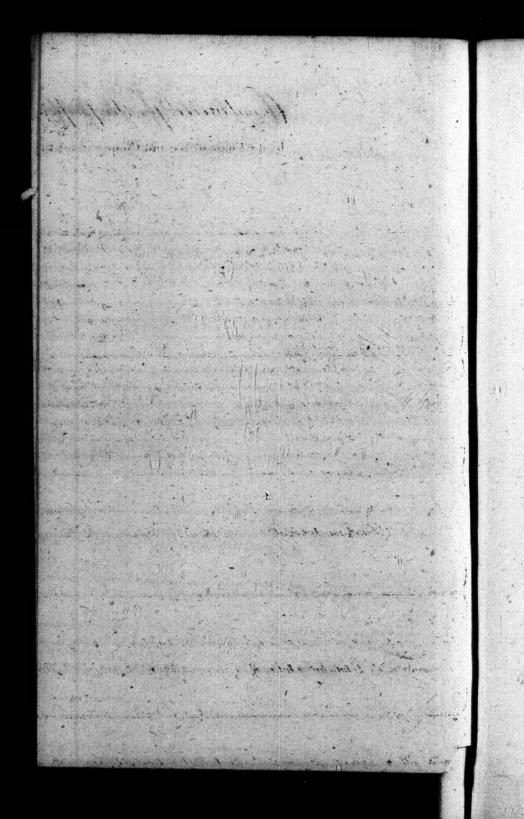
8. From

Constructed for the purpose of shewing in what manner the different Forms of Putrid Intestinal Remitting Fevers are produced, by the Coincidence and Cooperation of the Fluctuating force of the Sol-lunar Influence, with the various modifications of the Febrile State, during the Lunar Periods, and Interlunar Intervals.

	Interlunar Interval I I I I I I I I I I I I I I I I I I I		
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e fluctuating form of the Solbunar Influence coinciding and Cooperating in various Stages and			12
was with various modifications of the Febrile State, excites Meridional piaroxysms to attack on all			3
different days of the Lunas period, and supports them until the commencement of the !! Interhonar		Constituting Fevers of	14
eval at which time the Critical Maturity of the Febrile state happening to concur in a sufficient degree			3
the periodical decline of the Sol lunar Influence, these Meridianal paroxysms then subside, and some to a find			16
isk thas form Groups or Successions of puroxysms in the manner represented by the Detts on the different Horizon. These of this Division of the Table.		1	17
		The state of the s	7
Auctuating force of the Sol hunar Influence, coinciding and Cooperating invarious Stages and degrees with			18
ous modifications of the Eebrile state excites Meridional pure sysms to attack on all the different			19
is of the Interhanar Interval, and supports them until the commencement of the 1. Interhan Interval at		Constituting France of	10
th time the Critical maturity of the Fibrile state happening to concur in a sufficient degree with the period		Constituting Fevers of	12
decline of the Sel lunar Influence, these Meridional parexysms then subside, and come to africal Crisis and thus			13
Groups or Sucressions of paracysins in the manner represented by the Dotts on the different Herizontal lines of			14
Division of the Lable			1
		41	13
I se of the Groups attacking in the Lunar Period and subsiding on the commence -			16
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ant of the 2. Interhunar Interval as represented by the Dotts of this Division?		Constituting Fevers of	-{ Z8
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d so of the Group's attacking in the Interhonar Interval and subsiding on the com-			23
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encement of the 2. Interlunar Interval as represented by the Dotts of this Division.		1	26
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ad so of the Groups attacking in the Lunar Period and subsiding on the comm .	三角面的图像 网络帕拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉	The second	1 37
coment of the 3.4 Interhonar Interval as represented by the Dotts of this Division.	医骶髓膜髓膜 医阿内氏结肠 网络阿拉斯西班牙 化拉拉拉拉拉拉 电对线电视 医阿拉氏氏征 医神经囊炎	Constituting Feres of	- 32
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d so of the Groups attacking in the Interhonar Interval and substiting on the com -			38
		Constituting Fevers of	1 39
comment of the 3. Interlunar Interval as regresented by the Dotts of this Division.			10
			41
			42

B. These examples will also suffice to applain how the Sol lunar Influence cooperating with the Febrile state, and exciting and supporting Meridional Paroxysms beyond the 3 unto the 4.56 and 74

Interlunar Interval produces Fevers of a much greater length than the Forms exhibited in this Table



8. From the different remarkable changes which take place in the fymptoms at the final interlunar crifes; viz. a fediment, or a particular turbid appearance in the urine; a more free and natural perspiration; fpontaneous ftools; a cleaner, moifter, and fofter tongue, with a more free and natural discharge of faliva; a more loofe and copious expectoration; a free discharge of bile, which seemed to disappear, and to be suppressed in the course of the fever, &c. &c.; we conceive that two important events take place upon this occasion, viz. a folution of the spasm; and a discharge of the morbific matter. And upon these grounds we advance the following proposition respecting the nature of the particular circumstances which constitute the critical maturity, and the mode in which they operate in bringing the different forms of putrid intestinal remitting fevers to subside and terminate.

THEOREM

THEOREM IV.

That, at the time of the final interlunar crisis, the spasm excited by the putrid particles introduced into the blood, first of all begins to give way; and, secondly, that the secreting vessels becoming more relaxed and open, and the secretions more free and copious, the corrupted particles will also be discharged in greater quantity: And, from the concurrence of these two events, in various degrees, we are led to infer that the sever is thus brought, sometimes suddenly and at once, and sometimes slowly and gradually, to a final and happy termination.

9. It will not escape the notice of those who are well acquainted with medical subjects, that, by introducing the fol-lunar influence as a new principle in pathology, we are now able to reconcile, and unite the two remarkable theories of morbific matter and spasm; which have been espoused with so much zeal by their respective votaries;

of medicine. This accommodation was first suggested about five years ago, in our Treatise on The Influence of the Moon in Fevers, published in Bengal, (Vid. Preface, and the Treatise itself, Prop. IV.); and we hope that it will now be better understood.

SECT. IV.

of the cause of the disparity of their forms with respect to the frequency of their occurrence.

ART. I.

OF THE CAUSE OF THE SUPERIOR FREQUENCY OF THE CLASSES IN GENERAL WHICH ATTACK IN THE LUNAR PERIODS, COMPARED WITH THOSE WHICH ATTACK IN THE INTERLUNAR INTERVALS.

XXIX.

XXIX.

1. It being established that these disorders are produced by infection, and consequently that they are propagated and spread, caeteris paribus, in proportion to the number of those that are infected; and having also shown, (XVIII. Ax. III.), that the force of the soluturar influence to excite meridional paroxysms is much stronger during the lunar periods than the interlunar intervals, and that the number of severs which attack in the sormer are to the number of severs which attack in the latter nearly in the proportion of 90 to 10; from these circumstances, we think it reasonable to infer the following proportion, respecting the cause.

THEOREM

THEOREM V.

The superior force of the sol-lunar influence at the lunar periods, first by exciting the attacks of severs during these periods, in such as are already infected, then by propagating and spreading the infection from these to others, and again by exciting these to attack, and so forth. MORE powerfully and frequently than in the interlunar intervals, operates in a circle; and thus becomes the cause of the superior frequency of severs attacking in the lunar periods.

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OF THE CAUSE OF THE SUPERIOR FREQUENCY OF PARTI-CULAR CLASSES WHICH ATTACK IN THE LUNAR PE-RIODS, COMPARED WITH THE OTHER CLASSES OF THIS DIVISION.

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XXX.

the force and action of the critical maturity of the febrile state, we obtain an easy explanation of the causes which produce the superior frequency of particular classes of severs attacking in the lunar period, naturally arising from it in the form of so many corollaries; and consequently a solution of the question which is the immediate subject of this inquiry.

COROLLARY I.

That, in the first class comprehending fewers attacking on the 7th, 6th, and 5th day of the lunar period, and consequently continuing only 1, 2, and 3 days before the commencement of the first interlunar interval, the necessary degree of critical maturity is seldom compleated at this juncture; and does not concur to produce a final interlunar criss in more than 4 cases out of 90 which attack in the lunar period.

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COROLLARY II.

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That, in the second class, comprehending severs attacking on the 4th, 3d, 2d, and 1st days of the lunar period, and consequently continuing 4, 5, 6, and 7 days before the commencement of the first interlunar interval, the necessary degree of critical maturity is often compleated at this juncture; and concurs to produce final interlunar crises in 35 out of 90 cases attacking in the lunar periods.

COROLLARY III.

That, in the third class, comprehending fevers attacking on all the different days of the lunar period, and passing over the first interlunar interval, without a final criss, and consequently continuing 15, 16, 17, 18, 19, 20, and 21 days before the commencement of the second interlunar

K

interval,

interval, the necessary degree of critical maturity is still more frequently completted at this juncture; and concurs to produce final interlunar crises in 45 cases out of 90 attacking in the lunar period.

COROLLARY IV.

That, in the fourth class, comprehending fevers attacking in all the different days of the lunar period, and passing over the intermediate interlunar intervals without a final criss, unto the the commencement of the third, fourth, fifth, sixth, and seventh interlunar interval; and consequently continuing 29, 30, 31, 32, 33, 34, 35 days, and so on upwards, the necessary degree of critical maturity is not compleated, as usual, at the commencement of the first and second interlunar intervals; but requires a longer time. Examples, however, of this kind occur in about 6 cases only out of 90.

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ART

ART. II.

OF THE CAUSE OF THE INFERIOR FREQUENCY OF THE CLASSES IN GENERAL, WHICH ATTACK IN THE INTER-LUNAR INTERVALS, COMPARED WITH THOSE WHICH ATTACK IN THE LUNAR PERIODS.

XXXI.

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1. It being established that these disorders are produced by infection, and consequently that they will be propagated and spread, caeteris paribus, in proportion to the number of those that are infected; and having also shewn (XVIII. Ax. II.) that the force of the sol-lunar influence to excite meridional paroxysms, is much weaker during the interlunar intervals, than the lunar periods, and that the number of severs which attack in the former, are to the number of severs which attack in the latter, nearly in the proportion of 10 to 90, we think it reasonable to infer from these premises, the sollowing proposition, respecting the cause.

THEOREM

THEOREM VI.

The inferior force of the fol-lunar influence, at the interlunar intervals, first by exciting the attacks of severs during these intervals, in such as are already infected, then by propagating and spreading the infection from these to others, and again by exciting these to attack, and so forth, Less powerfully and frequently than in the lunar periods, operates in a circle, and thus becomes the cause of the inferior frequency of severs attacking in the interlunar intervals.

6 I.

OF THE CAUSES OF THE SUPERIOR FREQUENCY OF PARTI-CULAR CLASSES WHICH ATTACK IN THE INTERLUNAR INTERVALS, COMPARED WITH THE OTHER CLASSES OF THIS DIVISION.

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XXXII.

XXXII.

1. From the preceding axiom, (XXVIII.), respecting the force and action of the critical maturity of the febrile state, we obtain an easy explanation of the causes which produce the superior frequency of particular classes of severs attacking in the interlunar interval, naturally arising from it in the form of so many corollaries; and consequently a solution of the question which is the immediate subject of this inquiry.

COROLLARY L

That, in the first class of severs attacking on the different days of the interlunar interval, and consequently continuing 8, 9, 10, 11, 12, 13, 14, days, before the commencement of the first interlunar interval, the necessary degree of critical maturity is compleated, in a great many cases, at this juncture; and thus concurs to produce a sinal interlunar criss in 7 out of 10 severs attacking on the interlunar intervals.

COROL-

COROLLARY II.

That, in the second class of severs attacking in the interlunar intervals, and continuing till the commencement of the second interlunar interval, and consequently forming severs of 22, 23, 24, 25, 26, 27, and 28 days, the necessary degree of critical maturity is generally completed at this juncture, and concurs to produce the final interlunar criss in many of those cases that do not terminate in the first interlunar interval, or in the proportion of 2 cases out of 10 which attack in the interlunar interval.

COROLLARY III.

That, in some rare and uncommon cases of fevers attacking in the interlunar intervals, the necessary degree of critical maturity not being compleated, even at the commencement of the second inter-

interlunar interval, they defer their final interlunar criss until the 3d, 4th, 5th, 6th, and 7th interlunar interval, &c.; and that such cases as these form the third class of severs attacking in the interlunar intervals, and occur only in the proportion of 1 case out of 10.

ART. III.

Therefor Blw Anico

OF THE CAUSES WHICH HAVE OCCASIONED CERTAIN INDIVIDUAL FORMS BELONGING TO CERTAIN CLASSES UNDER THESE DIVISIONS, NAMELY THOSE OF 4, 7, 11,
14, 17, AND 20 DAYS, TO BE CONSIDERED AS FAR MORE
COMMON THAN ANY OTHER; AND AS THE PRINCIPAL
AND PROPER FORMS OF THESE FEVERS.

XXXIII.

1. Having shewn (XXX. XXXII.) in what manner the action of the critical maturity of the febrile state determines and limits the final interlunar criss, or the solution of severs attacking in the lunar periods and interlunar intervals to certain fixed points of time more frequently than others, and thus forms them into claffes diftinguished from each other in respect of their
frequency, we now proceed to inquire why certain individual forms under these classes have been considered
[as more frequent and common than any other; and as
the principal and proper forms of these fevers.

2. In attending to all the various forms of fevers conftituted by the varieties we have pointed out in their length or duration, the mind will naturally be strongly impressed by those only which present themselves frequently; and those which occur rarely will leave but little or no impression at all.

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היה הלווסם כל יונגן בינונגם במשתנושים היינטט הלומנול בקלונין. לידוריים וחומה בכל לנוצרה נלף היינו בפריון יונגע בילים בילים ביין ביין

MAGLERARY IN

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To the HEAD of those which occur rarely we refer, Belonging to thoseattacking in the lunar period, The ift class or fevers of 1, 2, and 3 days, which are to 100, the whole amount of the happenings, in the proportion of The 4th class, comprehending fevers of about 29, 30, 31, 32, 33, 34, 35 days and upwards, which are to 100, the amount of happenings, in the proportion of Belonging to those attacking in the interlunar intervals, The first class, or fevers of 8, 9, 10, 11, 12, 13, and 14 days, which are to 100, the amount of happenings, in the proportion of The 2d class, or fevers of 22, 23, 24, 25, 26, 27, and 28 days, which are to 100, the amount of happenings, in the proportion of The 3d class, comprehending fevers of about 37, 38, 39, 40, 41, and 42 days and upwards, which are to 100, the amount of happenings, in the the proportion of

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To the Heads of those occurring frequently we refer,

Belonging to those attacking in the lunar periods,

The 2d class, or fevers of 4, 5, 6, and 7

days, which are to 100, the amount of

the happenings, in the proportion of 35

The 3d class, or fevers of 15, 16, 17, 18,

19, 20, and 21 days, which are to 100, the

amount of happenings, in the proportion of 45

The whole amount of forms occurring frequently 80

From these premises, it is obvious that the forms under the head of those which occur rarely, presenting themselves only in the proportion of 20 to 100, will make an impression that will be slight and transitory, and that the forms under the head of those which occur frequently, presenting themselves in 80 cases out of 100, will make an impression that will be strong and lasting; and consequently that the forms of 4, 5, 6, 7—15, 16, 17, 18, 19, 20, and 21 days, will generally be considered as the prevailing and principal forms of these severs.

3. Now, if, from any accidental cause, the mind should happen to form a predilection in favour of the number 4, and should conceive that this number of days constitutes the natural and proper form of a simple fever; and that all fevers of a greater length are nothing more than fo many superadditions of the simple form; upon this foundation, a prepoffession being established in favour of the numbers 4, 7, 11, 14, 17, and 20, which are the forms created by the number 4, and fix successive appositions of the same number made in a particuliar way * to itself; the forms of 11 and 14, which are common in the lift of those that occur rarely, will naturally be transferred, by the imagination, from that lift, and inferted amongst the lift of those that occur frequently, in order to supply the links or steps which are naturally deficient among the latter between 7 and 17. This being done, all the intermediate forms, (viz. those of 5, 6-8, 9, 10-12, 13-15, 16-18, 19-21 days) being readily converted, upon one pretence or other, into those favourite forms, (viz. forms of 4, 7, 11, 14,

^{17,}

Hippocrates Praenotiones, Sect. XX. and our remarks upon it in the note, page 86.

17, and 20 days), to which they are most contiguous, and approximate most nearly, will thus be disregarded and forgotten; and thus the forms of 4, 7, 11, 14, 17, 20 days, will remain impressed almost alone, and be considered as the principal and proper forms of these severs.

To confirm the probability of this explication, it is to be observed farther, that the first symptoms of the attacks of severs, as well as their final crises or terminations, are in many cases rather obscure ; and that this obscurity is in a singular manner favourable to that deception which the mind, when prepossessed, may incline to impose upon itself, in adopting the favourite forms we have specified, in preference to those which are intermediate. Owing to this obscurity of the symptoms, the day of the attack, and of the final crisis, may either of them, or both of them, be included or excluded from any form at pleasure; and this, to an imagination under the influence of a prejudice in favour of the favourite forms, is a latitude more than sufficient to establish the delusion we have described:

For

That is to fay, to those who are unacquainted with the proper periods for watching and observing them.

For the intermediate forms between each fucceeding favourite form, amounting to no more than two, excepting in one case *, may all of them be converted, at pleasure, into the intermediate forms which they immediately precede or follow, by the admission or exclusion of a single day, in the following manner:

The intermediate form of 5 days is readily converted into the favourite form of - - 4 days. The intermediate forms of 6 and 8 days are readily converted into the favourite form of 7 days. The intermediate forms of 9, 10, and 12 days are readily converted into the favourite form of 11 days. The intermediate forms of 13 and 15 days are readily converted into the favourite form of 14 days. The intermediate forms of 16 and 18 days are readily converted into the favourite form of 17 days. The intermediate forms of 19 and 21 days are readily converted into the favourite form of 20 days.

4. The following quotation from Hippocrates, †

tends to confirm what I have advanced upon this fub-

ject.

^{*} The third case, (Vide page 86.).

[†] Vide Praenotiones, Sect. XX. et Judicationibus, Sect. II.

ject, I mean a predilection of the number 4, in a firiking manner, and will enable me to bring the prefent inquiry to a speedy conclusion.

- · Febres judicantur in iisdem numero diebus ex qui-
- bus et superstites evadunt homines, et ex quibus per-
- eunt. Etenim placidiffimae febres et fignis securiffi-
- * mis nitentes, quarto die definunt aut prius. Maligniffi-
- · mae vero, et fignis horrendissimis, quarto die aut
- prius occidunt. Primus igitur ipfarum infultus fic
- definit. Secundus autem ad feptimum producitur.
- ' Tertius ad undecimum*. Quartus ad decimum quar-
- ' tum. Quintus ad decimum septimum. Sextus ad
- vigefimum. Hi igitur impetus exacutifiimis morbis,
- e per quatuer ad viginti additione definunt. Non potest
- ' autem quicquam harum integris diebus exacte nume-

rari,

* It is exceedingly remarkable, that in this (the 3d) apposition or attack, three entire days, viz. the 8th, 9th, and 10th, are included between the first and last day; whereas in all the other attacks or appositions, only two entire days are included between their first and last days. This is a circumstance, which tends to shew how much the theory of quaternal appositions is constrained and forced; and insufficient for the purpose to which it is applied.

- rari, neque enim annus et menses integris diebus nu-
- merari possunt. Postea vero eodem modo juxta ean-
- dem additionem, primus circuitus quatuor et triginta
- dierum eft; secundus quadraginta dierum; Tertius
- · sexaginta dierum. At in horum principiis difficilli-
- mum est cognoscere cos qui in plurimo tempore judi-
- cabuntur. Simillima enim funt ipforum principia.
- · Verum a primo die animadversionem facere oportet,
- et prout Singuli Quoternarii adduntur confiderare, et
- on non latebit te quo vertitur morbus.' &c.
 - The event of fevers, whether favourable or fatal, is
- determined in the fame number of days: for Fevers
- with the most moderate and pleasing appearances
- terminate on the fourth day, or fooner; whilst fevers
- with fymptoms the most malignant and alarming, ter-
- minate likewife on the fourth day, or before it.
- . These, therefore, are the limits of their first attack.
- But the fecond attack is protracted to the feventh
- day; the third to the eleventh; the fourth to the
- fourteenth; the fifth to the feventeenth; and the fixth
- to the twentieth. These attacks, therefore, in acute
- diseases, extend to twenty days by the addition of

four,

- four, and then terminate. None of these, however,
 - can be measured exactly by entire days; neither can
 - the year itself, nor even months. The next circuit,
 - or form, after these (viz. of twenty days) consists of
 - thirty-four days, constituted in the same manner, by
 - the fame addition; the second confists of forty days;
 - the third of fixty.—But at the beginning of these
 - different forms, it is extremely difficult to diftinguish
 - those that are to continue long; for the symptoms of
 - all of these at their commencement, are much alike. It
 - is, therefore, necessary to watch them from the first
 - day, and to observe in what manner the Quaternal Ap-
 - * positions are made; and you may then discover the
 - ' tendency of the difeafe.'

From this authority we know that the predilection in favour of the number 4, and its different appositions to itself, has actually existed since the days of Hippocrates. We thence infer that the deception, which we have just now described, as its natural consequence, has actually taken place, and contributed to consirm the general opinion respecting the superior frequency of the savourite forms; and finally,

that it is reasonable to advance the following proposition upon this subject.

THEOREM VII.

That the forms of 4, 5, 6, 7, 11, 14, 15, 16, 17, 18, 19, 20, and 21 days are really the more common forms of these severs; * and that there is reason to believe that the ancient prejudice in savour of the number 4, and its different appositions to itself, has contributed to produce and support the opinion, that from amongst these, the forms of 4, 7, 11, 14, 17, and 20 days, are their most common and principal forms.

XXXIV.

1. Profecuting our inquiries still farther, into the causes which have occasioned the individual forms of 4, 7, 11, 14, and 20 days, to be considered the most common and principal forms of these severs; it is now

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^{*} It must be remembered that we have said, in page 83, that the forms 11 and 14 are common in the list of those which occur rarely.

to be observed, that we have hitherto supposed that the power of all the different days of the lunar periods and interlunar intervals to excite the attacks of severs is perfectly equal; and consequently that an equal number of severs being excited in all of them, the frequency of any one form will not exceed the frequency of any other in its respective class.

For example, in the fecond class of the first division of fevers, consisting of fevers of 7, 6, 5, and 4 days, which are formed by attacking on the 1st, 2d, 3d, and 4th days of the lunar period, and terminating on the commencement of the first interlunar interval, and which happen in the proportion of 35 times out of 100, (to avoid fractions say 36 times,) the number of attacks, on each of these days, supposing their power of exciting fever to be perfectly equal, will be exactly 9; consequently there will be formed, in this manner, 9 fevers of 7 days, 9 of 6 days, 9 of 5 days, and 9 of 4 days, in all 36. And thus it is evident, that the frequency of any one form will not exceed the frequency of any other in its respective class: if the power of all the

the different days of the lunar period and interlunar interval to excite fevers be perfectly equal.

On the other hand, should the power of exciting fever be unequal, and greater, for example, on the 1st and 4th day of the lunar period, than it is on 2d and 3d; and should the number of attacks on each of the two former days, amount to 12, and only to 6 on each of the two latter, there would then be formed under the 2d class of the first division of severs, 12 severs of 7 days, 6 of 6 days, 6 of 5 days, and 12 of 4 days; in all 36. And thus it is evident, that the frequency of some forms would exceed the frequency of certain others in their respective classes; should the power of the different days of the lunar period and interlunar interval to excite severs be unequal.

2. Now, if the forms of 4, 7, 11, 14, 17, and 20 days do absolutely occur more frequently than any other in their respective classes, it follows from the foregoing illustration, that this disparity must proceed from a power in particular days, to excite the attacks of fevers more frequently on these days, than on any other; and it will appear by referring to the Table,

Plate

Plate I. and II, that these particular days can be no other than the 5th of the interlunar interval, the 1st, 4th, and 7th of the lunar period, and likewise the 3d of the interlunar interval; or these days nearly. We must, therefore, now proceed to inquire if these days be actually possessed of such a power. Unfortunately, however, this question having but lately become an object of our attention, proper observations have not been made for ascertaining the fact; and we are thus reduced to the necessity of inquiring how far it may be inferred, from any knowledge we have obtained of the nature of the incipient sebrile state, and of the soll-lunar influence.

3. With respect to the nature of the febrile slate, when it may be called incipient, and before it has appeared in the shape of a meridional paroxysm, we have made no direct observations that throw any light upon this subject. But, as the tendency of meridional paroxysms when once begun, to repeat their attacks after an interval of about one or two days, constituting what has been called the tertian and quartan tendency in severs, is common and well established, we are thence induced

to suppose that a tertian and quartan tendency may likewise prevail occasionally, in the incipient and latent febrile state of these severs, before it is able to show itself in the form of distinct and obvious meridional paroxysms.

- 4. On the other hand, with respect to the nature of the fol-lunar influence, we must also confess that no direct observations entitle us to infer, that there exists in the five particular days we have specified a superior power of exciting meridional paroxysms. All that we have been able to discover or infer, is a rising and falling in its force and action, nearly coincident and similar to that of the flowing and ebbing of the tides; The former appearing towards the end of the interlunar interval, and continuing until the expiration of the lunar period; the latter appearing upon the expiration of the lunar period, and continuing until towards the end of the interlunar interval.
- 5. Contemplating and combining the ideas we have thus obtained of the incipient febrile state, and sollunar influence, we do not think it unreasonable to infer the following proposition respecting the power of their united force and action.

THEOREM

THEOREM VIII.

That it is possible that a tertian or quartan tendency in the incipient febrile state, concurring occasionally with the ascending and descending degrees of the sol-lunar influence, about the 5th of the interlunar interval, the 1st, 4th, and 7th of the lunar period, and also the 3d of the interlunar interval, may actually determine meridional paroxysms to shew themselves more frequently about these junctures; and that thus, the forms of 4, 7, 11, 14, 17, and 20 days, or these forms nearly, may actually occur more frequently in the course of nature.

6. We also think it probable, that, not only the tertian and quartan, and all the other varieties of this kind, observed in the progression of remitting and intermitting severs, may hereaster be found to depend on the concurrence of the various modifications and tendentendencies of different febrile states, with the different stages and degrees of the fol-lunar influence.

7. These are discussions of importance; and I have entered into them here, not merely for the purpose of proposing my conjectures, but to shew that we are still in the dark with respect to many material questions which merit the attention of those who are desirous of being intimately acquainted with the nature of severs.

XXXV.

1. Having discovered, in the course of this tedious analysis, (XXXIII. XXXIV.), that there is reason to believe that causes, both imaginary and real, may have concurred to produce and confirm the general notion that has been entertained respecting the superior frequency of the forms of 4, 7, 11, 14, 17, and 20 days, we now think ourselves warranted to establish the following comprehensive proposition, in reply to the question which is the immediate object of our present investigation under this article.

THEOREM IX.

That there is great reason to believe that the forms of 4, 5, 6, 7-11, 14-15, 16, 17, 18, 19, 20, and 21 days, taken together, are really the more common forms of these severs (XXXIII. 2.); That the preference given to the favourite forms 4, 7-11, 14-17, 20 days, is possibly founded, in some degree, on their more frequent occurrence in the course of nature, occasioned by the superior influence of the five principal exciting junctures (Theor. VIII.); That, independent of this, the different numbers of which these favourite forms consist, coinciding with a prejudice in favour of the number 4, and the numbers formed by repeated appositions of this number made in a peculiar manner to itself, the idea of their real frequency has been greatly magnified by the imagination (XXXIII. 3.); and, finally, That, from these causes, they have

come to be considered, not merely as the most frequent and principal, but almost as the only forms of fevers, into which all the intermediate and less common forms have been converted and assimilated, by the bias of prepossession, and almost obliterated in the history of medicine.

ART. IV.

THE CONCLUSION DRAWN FROM THE WHOLE OF THESE
PREMISES RESPECTING THE NATURE OF THE FORMS
AND CRISES OF THESE FEVERS.

XXXVI.

1. Prefuming, from the established uniformity and steadiness of Nature, that her laws and operations have ever been the same that they are now, we infer that the effects and phenomena, which these have produced, have never differed in their nature and forms from those of the present time; and thence we conclude, that she various histories which have been delivered

different pictures, more or less accurate, of their different natural forms, produced, like those which we have seen and described, by the action of the sol-lunar influence upon the sebrile state.—It therefore follows that their nature, origin, course, duration, and termination, and, in short, their forms and crises, have always been similar to the nature, origin, course, duration, and termination, and, in short, to the forms and crises of those which we have seen and described; and consequently, that these having been already explained and accounted for in the course of this analysis, we have thus unfolded the whole doctrine and mystery of the forms and crises of these severs:

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ART. V.

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OF OTHER PHENOMENA; PARTICULARLY OF THE VARIA-TION IN THE STATE OF THESE FEVERS, AT THE EQUI-NOCTIAL PERIODS, AND INTER-EQUINOCTIAL INTER-VALS.

XXXVII.

- 1. The changes which take place in the state of these severs, at different seasons of the year, are the only phenomena that now remain to be explained.
- 2. But, as the variation which takes place in the verno-equinoctial periods is much less conspicuous, than that which appears in the autumno-equinoctial period, and is not so precisely ascertained, we shall therefore, at present, attempt to pronounce only with respect to the latter.
- 3. Upon this subject we have to observe, that, as far as we have been able to discern, putrid intestinal remitting fevers are much more frequent, violent, and obstinate, during the autumno-equinoctial period than

the

the inter-equinoctial intervals which precede and follow it.

4. In explaining the cause of this inequality, we are naturally led to adopt a mode of reasoning similar to that which was employed in accounting for the superior frequency of severs attacking in the lunar periods, compared with the frequency of those which attack in the interlunar intervals; and we apply it in the following manner.

It being established, that these disorders are produced by infection, and consequently that they will be propagated and spread in proportion to the number of those that are infected, and the degree of infection; and having also shewn (XVIII. Ax. III.), That the force of the sol-lunar influence to excite meridional paroxysms is much stronger during the equinoctial periods than their respective inter-equinoctial intervals; and, ultimately, that the frequency, violence, and obstinacy of these severs, are much more remarkable during the autumno-equinoctial period than the preceding and sollowing inter-equinoctial intervals (4.), we think

think it reasonable to infer, from these premises, the following propositions respecting the cause.

THEOREM X.

That the superior force of the sol-lunar influence at the autumno-equinoctial periods, first, by exciting the attacks of severs during these periods in such as are already infected, then by propagating and spreading the infection from these to others, and again by exciting these to attack, and so forth, more powerfully and frequently than in the inter-equinoctial intervals, operates in a circle, and thus becomes the cause of the superior frequency, violence, and obstinacy of severs in the autumno equinoctial periods.

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think it realonable to infer, from thele premiles the

THEOREM XI.

The inferior force of the sol-lunar influence at the inter-equinoctial intervals, first, by exciting the attacks of severs, during these intervals, in such as are already insected, then by propagating and spreading the insection from these to others, and again by exciting these to attack, and so forth, LEBS powerfully and frequently than in the autumno-equinoctial periods, operates in a circle, and thus becomes the cause of the inserior frequency, violence, and obstinacy of severs attacking in the interlunar intervals.

5. From

MIRORHY

fife the following corollaries, which enable us to prognosticate, with considerable certainty, respecting the state and course of these severs, when they occur at these different seasons of the year.

interval, will incline to fulfile and terminate.

Caeteris paribus, fevers attacking, and having to run their course in the autumno-equinoctial period will be more severe and obstinate, than those which attack, and have to run their course, in the inter-equinoctial intervals.

COROLLARY II.

Caeteris paribus, fevers passing from the summer inter-equinoctial interval into the autumno-equinoctial period, will incline to increase and continue.

COROL

COROLLARY III.

officate, with confiderable certainly, refredting the

Caeteris paribus, fevers paffing from the autumnoequinoctial period into the winter inter-equinoctial interval, will incline to subside and terminate.

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PROBLEM III.

TO EMPLOY THE KNOWLEDGE WE HAVE
OBTAINED OF THE NATURE OF THE VARIOUS FORMS, &c. OF PUTRID INTESTINAL REMITTING FEVERS, TO DEDUCE
AND INSTITUTE AN IMPROVED METHOD
OF CURING THEM.

CHAPTER I.

THE GENERAL RULES DEDUCED AND PROPOSED.

XXXVIII.

In IRECTED by the principles of the theory which has been explained (Prob. I. II.), I have been led to adopt the following general rules for conducting the cure of these severs.

SECT. I.

OF THE GENERAL RULES FOR CURING PUTRID INTESTINAL REMITTING FEVERS WITHOUT LOCAL AFFECTION.

ART. I.

IN THEIR MILD AND SAFE FORMS.

XXXIX.

I. In our account of the febrile state, we had occafion to observe, first, that, in putrid intestinal remitting severs, the mucus which lines the intestines, especially the smaller, is in a putrifying state; and that this
being absorbed and introduced into the blood in circulation, becomes the exciting cause of that remarkable
change which constitutes the febrile state; and, secondly, that the contagious matter which infects and
corrupts the mucus, requires a considerable interval to
produce

produce these effects; and may therefore be thrown out of the body by an early exhibition of emetic, purging, and sudorific medicines, before the disease is confirmed.

2. For these different purposes, Tart. Emelic, owing to the expedition and certainty with which it operates, when properly managed, is better calculated than any other medicine we know; and upon this foundation we establish our first general rule for curing these severs.

RULEL

That the contagious matter must be evacuated, if possible, before the mucus of the stomach and intestines be infected and corrupted; or before an absorption sufficient to excite and confirm the disease has taken place, by vomiting, purging, and sweating with the forms of Tart. Emetic, that are best suited to these several purposes.

XL.

1. With respect to the febrile state, we observe farther, first, that, when it is once confirmed, it is always, as far as we have been able to difcern, in proportion to the prefumable quantity and acrimony of the matter absorbed from the intestines; that is to fay, that the violence of the febrile state is constantly increased when the contents of the bowels are long retained, and become highly offensive, and constantly prevented from increasing when they are maturely and effectually evacuated. And we observe, secondly, that, in putrid intestinal remitting fevers, (and I suspect in all others), there is a constant tendency to costiveness, with evident figns of a spasm or constriction of the bowels, which increases with the other febrile symptoms, during the meridional paroxysms, and remits during the intermeridional intervals, especially that which happens in the morning; and that, during these remissions, the operation of purging, laxative, and fudorific medicines, is certain, expeditious, eafy, and effectual; but quite otherwife therwife during the continuation of the meridional paroxyfms.

2. To these observations, I have here to add, first, that calomel, in a degree fuperior to any other medicine I am acquainted with, possesses the property of loosening and detaching the mucus of the intestines; that it requires, in general, from 6 to 10 hours to effeet this perfectly, and operates best when the patient lies quietly a-bed, without toffing or moving about; that a proper dose to an adult is from 6 to 12 grains; and that this dose must be repeated from 3 to 6 times * at the beginning of the difease; and afterwards, occafionally, as it may feem to be required by the fulness of the bowels, and state of their contents. We have to add, fecondly, that, in discharging the mucus, when loofened and detached by the calomel, together with the other faeces, a folution of Sal Cathartic. Amar. with Crem. Tart. and Manna, Sugar, or Honey, and a very small proportion of Tart. Emetic. given in divided doses every hour, or every half hour, operates

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^{*} This must be determined by the state of the stools,

more certainly, expeditiously, easily, and effectually, than any other medicine I have used. Three or four small doses must be given every morning after the doses of calomel, at the beginning of the disease, and afterwards in the course of it, as many every morning, or every second morning, as are sufficient to keep the bowels perfectly open and easy.

Upon these premisses, we establish our Second and Third general Rule to be observed in the curing of these severs.

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seemen and use from an of dequated by the fallects of the beautiful and their of their societies. We have

RULE II.

That, when the first attempts * to stop the sever at the beginning, by immediate evacuations, by vomitings, &c. with Tart. Emet. have been made; and when it appears to be established and confirmed, the time of the nocturnal meridional paroxysms must be dedicated, during the four or five first days of the sever, to the task of loosening and detaching the mucus from the coats of the intestines, by repeated doses of calomel taken at bed-time; and these must likewise be exhibited, for the same purpose, during the course of the disease, whenever they appear to be required by the state † of the bowels.

RULE

- * These attempts must be made, if possible, in the course of the first day, before night, so as not to prevent the exhibition of the calomel at bed-time.
- + That is to fay, their fullness, and the offensiveness of the stools.

RULE III.

That the time of the fucceeding morning intermeridional intervals must be employed, during the four
or five first days of the sever, in discharging the
mucus which has been loosened and detached by
the doses of calomel, with whatever other saeces
have been collected in the course of the night, by
the laxative solution of Sal Cathart. Amar. Sc.
of which small doses must likewise be continued every morning, or every second morning, in the
course of the disease, to prevent the collection and
remora of any putrid and offensive matter, and
its suture absorption.

XLI.

1. Whilst we are taking these steps to prevent the absorption of the putrid matter from the intestines, it is also necessary to remember, that the patient's linen

and bed-clothes, together with the air which furrounds him, will become impregnated with contagious effluvia, no less capable of being admitted into the body, and of exciting and supporting fever, than the original infection; and from this consideration we are directed to a fourth general rule.

RULE IV.

That every possible means must be employed to prevent the readmission of contagious effluvia into the body, by renewing and correcting the air in which the patient breathes, &c. and by a proper change of his linen and bed-clothes.

XLII.

1. A mixture of farinaceous fubstance, with the juice of fresh fruit, seasoned with wine, sugar, and nutmeg, or cinnamon, in the form of panada, makes a nourishment that is, in general, more refreshing and acceptable

to the patient than any other, and well calculated to counteract the putrid tendency of the disease. The most proper time for exhibiting nourishment is in the course of the day, after the operation of the morning laxative, and before the approach of the nocturnal exacerbation.

Upon this we establish a fifth general rule, to be attended to in curing these disorders.

RULE V.

That the body must be refreshed and nourished, particularly in the course of the day, after the operation of the morning laxative, and before the approach of the nocturnal exacerbation, by small cupsuls of panada given at proper intervals.

XLIII.

1. It was observed before, in its proper place, that the natural tendency of these fevers is to make their attack, to increase in their violence, and to continue during the lunar periods, and, on the other hand, to defer their attack, to abate in their violence, and to terminate in the interlunar intervals; that many terminate in the first interlunar interval; but that the more general tendency seems to incline them to run on to the second; that, beyond the second, they continue, in some cases, going on to interlunar intervals still more distant, even to the 7th; and that there is reason to believe that they proceed occasionally to intervals yet more remote.

2. But, although it be the natural tendency of these fevers to increase in their violence during the lunar periods, and although they sometimes continue for an extraordinary length of time, it is to be remembered, that, if the general rules I have recommended for their cure be properly observed, the symptoms very seldom arise to any alarming height; and that they generally terminate successfully in the first and second interlunar intervals.

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From these reflections, there arises a fixth, and a seventh general rule, to be observed in curing these features.

RULE VI.

That, being affured that the lunar periods will certainly aggravate the meridional paroxysms, we are on no account to procrastinate, at the beginning of the disease, the exhibition of the medicines prescribed for clearing the bowels, from any idle hope that it will vanish of its own accord; but, on the contrary, are to proceed with all the expedition we can; and are likewise to be careful to avoid every irregularity that may increase the violence of the sever, and concur with the natural tendency of this period.

RULE

RULE VII.

That we are not to be alarmed by a continuation of the fever, or by any moderate aggravation of the symptoms that may take place at the lunar periods; but to proceed steadily, according to the method we have proposed, without changing our plan, or harrassing our patient with a constant change and trial of unnecessary and painful remedies; knowing that all will terminate well, and in good time, in one of the interlunar intervals.

XLIV.

1. From the different remarkable changes which take place in the symptoms at the final interlunar crifis, viz. a fediment or a turbid appearance in the urine; a more free and natural perspiration; spontaneous stools; a clearer, moister, and softer tongue, with a

more

more free and natural discharge of saliva; a more loose and copious expectoration; a free discharge of bile. which feems to disappear, and to be suppressed, in the course of the fever, &c. &c. We conceive, I have already faid (XXVIII, 8.), that two important events take place upon this occasion: First, that the spasm excited by the putrid particles introduced into the blood, now begins to give way; and, fecondly, that the excretories becoming, by the folution of the fpafm, more open and relaxed, and the fecretions more free and copious, the corrupted particles themfelves will also be discharged in greater quantity; and, from the concurrence of these two events, we are led to infer that the fever is brought, fometimes fuddenly and at once, and fometimes gradually and flowly, to a final and happy termination.

2. Proceeding upon this theory, I am confident that I have contributed greatly to bring the fever to a complete and speedy criss, by using means to co-operate with the natural tendency of the interlunar interval to resolve the spasm; and, by encouraging and increasing the secretions which naturally incline to take place at

this juncture. To effect these two purposes, on the morning which succeeds the expiration of the lunar period, I take care to keep the patient exceedingly quiet; and to remove, at the same time, every thing in the bowels that may possibly support irritation and spass; and, in the course of the day, after the laxative has operated, I encourage a gentle perspiration, by an antimonial, or by other means that may be judged more proper.

From this discussion, we obtain an eighth general

R U L E VIII.

are profession and a first the test of the Armer and the Armer and

To co-operate with the natural tendency of the commencement of the interlunar interval to resolve the spasm; and to encourage the discharge of the morbific particles circulating in the blood, by the natural secretions, and to act upon this plan during the whole of the interlunar intervals.

XLV.

t. If, at the end of the interlunar interval, the pulse, notwithstanding all these endeavours, should continue quicker than its natural standard, the tongue soul, and the sleep disturbed by dreams in the night; and is, instead of a proper sediment at the bottom of the glass, the urine should exhibit a suspended mucus-like cloud, although the patient should be pretty well in other respects, and should have even recovered some appetite for food, there is great reason to apprehend that the seeds of the sever are still lurking within; and that it will again appear in its proper colours, in the course of the succeeding lunar period.

These observations suggest a ninth and tenth general rule.

RULE IX.

That, if the symptoms of the febrile state have not perfectly disappeared at the end of the interlunar interval, we are to be on our guard to avoid every irregularity that may concur with the natural tendency of the lunar period to renew the fever. And,

RULEX

That, if the fever should revive in the lunar period, it is to be treated upon the principles and rules we have explained; making proper allowance for the change that has taken place in the patient's strength, &c.

XLVI.

1. These are all the rules which seem to be required for the cure of putrid intestinal remitting severs, when

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they appear in forms that are really mild and fafe. And, as the medicines prescribed by these rules do not suddenly, like the Peruvian bark, interrupt the fever at once, but allow us to observe it proceeding in its natural course and direction, I have often been induced, from this motive, to depend on these alone, in cases which appeared to be fufficiently mild and fafe; and where I did not entertain any apprehension of danger. But, as I have been more than once deceived in cases of this kind, and as the method of giving the bark with opium, in the manner recommended for the cure of the more dangerous forms of these disorders, gives great fecurity, and can be attended with no inconveniency to be put in opposition to this advantage, I recommend it earnestly to every young practitioner to proceed upon the supposition, that none of these fevers, however mild their appearance, are free of danger; and to treat them, in every case, with the bark, at the beginning, according to the rules laid down for curing them when they appear in the forms that are confidered as more violent and dangerous (Vid. XLVII.).

ART. II.

OF THEIR MORE VIOLENT AND DANGEROUS FORMS.

XLVII.

- r. Having delivered the general rules that are to direct us in treating the milder and fafer forms of putrid intestinal remitting fevers without local affection, we now proceed to provide rules for the management of those which are more violent and dangerous.
- 2. In the milder forms, when they are treated in the manner we have directed, the heat, anxiety, and debility, continue moderate; and although the patient's head may be formewhat deranged whilft he is awake, and his flumbers diffurbed with difagreeable dreams, he still, however, continues to get rest, and to be in some degree restreshed.

In such cases, we infer, from the moderation of the symptoms, first, that the putrefaction going on in the mucus of the intestines is flow and inconsiderable; and

that there is no danger of the intestines themselves being affected with mortification: Secondly, that the quantity and irritating nature of the corrupted particles which have been absorbed are likewise inconsiderable; and that it is capable of producing mild meridional paroxysms only, which do not injure the brain by their violence; and are not attended with danger: And, lastly, that the contents of the bowels being carefully evacuated, and prevented from being absorbed, and what is already absorbed constantly carried off by the skin, kidneys, &c. the sever will at last terminate of its own accord, at one of the intervals, without the aid of any other medicines than those which we have prescribed.

3. But it is otherwise in the more violent and dangerous forms of these severs which are the subject of our present consideration; for, in these, the heat, anxiety, and debility, are excessive; and the head being deranged to an alarming degree, and the patient deprived entirely of rest, we are then led to conclude, not only that there is danger of a mortification of the bowels from the degree and extent of the putrefaction going

r de

by continuing to excite violent meridional paroxyfms, may caufe a determination towards the head inconfiftent with life *.

For these reasons, we are under the necessity of applying to other remedies besides those which we have prescribed for milder cases, in which we apprehend no danger.

- 4. To procure immediate relief from the exceffive anxiety and restlessness of putrid severs, there is no remedy
 - * I have been fortunate enough to meet with very few cases in which the more violent forms of these severs have proved fatal; but, in almost all of them, life seemed to be destroyed by the injury done to the brain during the violence of the paroxysms; and not by any general putrefaction or dissolution of the sluids, or of the folid parts.

In some cases, the whole powers of life seemed to be entirely overpowered and destroyed at once, as if it were by a poison; and, in all these cases, there was great reason to suspect a large absorption of putrid matter from the intestines. When putrefaction takes place in other parts of the body, by which life is destroyed suddenly, it is probably by an absorption of putrid matter from these parts operating in the same way. remedy so powerful and certain as opium; and we refer its effects to the power it possesses of destroying the sensibility and excitability of the system; and of thus rendering it, in a great degree, desended against the action of the morbisic particles circulating with the blood; to which cause we are inclined to ascribe the violent spassmodic affections of the vascular system, which produces that dangerous determination to the head in the course of the meridional paroxysms we so much dread.

5. To prevent the putrefaction of the mucus, and the mortification it may induce, and also to put a stop to the meridional paroxysms, we are acquainted with no remedy so powerful and certain as the Peruvian Bark, especially in substance. After the experiments that have been made upon it, it cannot be doubted that it possesses the property of correcting the putrefaction of the mucus; and that, by being applied immediately to the bowels themselves, it will likewise prevent their mortification: And its power of suppressing the meridional

Vid. Alexander's Experiments, &c. &c. &c.

installable of the effect of

dional paroxysms, by some mode of acting not so easily explained, is no less certain. Perhaps it may act by entering into the blood, and correcting the nature of the putrid particles; which probably produce the spafmodic state, by pervading and irritating the whole vafcular fystem: -Or, perhaps, the spasmodic state may depend more particularly upon the putrid particles being allowed to enter into the minute veffels of the brain; and perhaps the bark produces its falutary effects, not only by correcting the putrid particles, but by strengthening and contracting the vessels of the brain, fo as to prevent them from being admitted .-But, in whatever mode the bark produces its effect, it ought to be confidered as an infallible fecurity against danger in these fevers, when given in sufficient quantity. For, although it may fail to ftop the meridional paroxysms during the first lunar periods *, even when given

^{*} Several late observations made in India, since I came to be better acquainted with the theory of the fol-lunar influence, incline me to suspect that this is generally the case in the more violent forms of the putrid remitting severs of that country; and that

given in large quantities, for several days, yet let it not, on this account, be distrusted or discontinued; for, in the space of 20 years, I cannot say that I have met with any case, in which I conceived it to be properly administered, and in sufficient quantity, where it ever sailed of securing the patient in the end.

From these premises, therefore, respecting the cure of putrid intestinal remitting severs, without local affection in their more violent and dangerous forms, we are led to the following general rules.

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that many instances of sudden and complete final crises, which were ascribed to the virtue of the bark alone, were in part due to the decline of the sol-lunar instuence, concurring to assist it at the commencement of the interfunar interval.—And, perhaps, it may be discovered hereafter, that many other wonderful and unexpected crises, in other disorders attended with sever, (in the drops, for example), attributed at this day to the power of certain medicines, have been really owing to the same cause.

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RULE I.

That the Rules already proposed, in treating the mild and safe forms of these fevers, for stopping the fever, if possible, in the very beginning *; for evacuating the bowels effectually with calomel and the laxative folution; and for giving nourishment, are to be observed strictly during the two first days of such forms as may threaten to be violent and dangerous: That, on the morning of the third day, immediately after the operation of the morning laxative, in order to check putrefaction, suppress the violence of the meridional paroxysms, and give security against a failure of the strength, or any unfavourable turn in the fever, the bark is then to be exhibited in substance, and to be continued + for two days in such doses as to throw

[.] By Tart. Emet.

[†] In 1769, very foon after my arrival in India, I was fortunate to discover the wonderful efficacy of R the

throw in at least 12 drams or 2 ounces before the expiration of the second day: That then the calomel is to be repeated at bed time, and the la-kative in the morning: That, immediately after the operation of the morning laxative, the bark is again to be reiterated for two days, just as before: That the calomel and laxative are again to be repeated; And so on, until the fever give way; after which, it is sufficient to support the effect of the powder by a few doses of the decoetion given daily, and to repeat the laxative solution every second or third day, as occasion may require.

RULE

the bark in substance in curing the putrid intestinal remitting sever of Bengal, commonly called the Pacca Fever; and, at the same time, the perfect safety of giving it during the height of the meridional paroxysms, whether nocturnal or diurnal; and consequently the great danger and insatuation of waiting for a spontaneous remission of the sever. The bark may be given in wine, or wine and water, just as the strength may seem to require it.

RULE II.

That, to prevent the bark from being thrown up, or passed by stool, and also to make nourishment sit upon the stomach, and to procure ease and repose, opiates are to be given freely.

t. By observing these rules, I have treated the putrid severs of India with great success; and we conceive that, with a little variation, they will be found applicable to every form of these disorders attended with danger.

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SECT.

SECT. II.

OF THE GENERAL RULES FOR CURING PUTRIO INTESTINAL REMITTING FEVERS WITH LOCAL AFFECTION.

ART. I.

IN THEIR MILD AND SAFE FORMS.

XLVIII.

1. In treating of the arrangement of putrid inteftilnal remitting fevers, in the beginning of this differtation, it was observed, that all the disorders we had met
with in India, under the form of dysentery, and
most of those under the form of pleurisy, peripneumony, acute rheumatisms, and many other local affections attended with fever, were nothing more than so
many different cases of putrid intestinal remitting severs accompanied with different local affections; and
therefore to be distinguished from each other in this
respect alone. Agreeable to these ideas, we arranged

Il putrid intestinal remitting fevers under the two following divisions, viz.

1st, Putrid intestinal remitting severs without local af-

2d, Putrid intestinal remitting fevers with local affec-

And we concluded, that the proper method of treating all putrid remitting fevers was exactly the fame,
except in these respects where their different local asfections require remedies peculiarly suited to their nafure.

- 2. Upon this general principle, we therefore proceed now to confider more particularly the treatment of putrid intestinal remitting fevers with local affection, which we subdivide likewise into two classes, viz.
 - a. Those that are mild and safe;
 - b. Those that are more violent and dangerous.
- 3. In the milder and fafer cases of putrid intestinal remitting severs with local affection; whether dysenateries, pleurisies, peripneumonies, or rheumatisms, &c. the treatment prescribed for the mild and safe cases of putrid intestinal remitting severs without local affection,

has been found to be perfectly sufficient and proper; without any other addition than that of keeping the whole body, and especially the parts affected, better desended from cold; and of using other means to produce and support a gentle perspiration.

We therefore propose the following general rules for the cure of the safe and mild forms of putrid intestinal remitting severs with local affection.

RULEL

That they are to be treated exactly according to the general rules laid down for treating the mild and safe forms of putrid intestinal remitting fevers without local affection.

RULE II.

That the whole body, and especially the parts affected, are to be better desended from cold, than when when there is no local affection; and other means used to promote and support a gentle perspiration.

XLIX.

1. These are all the rules that seem to be required for curing putrid intestinal remitting fevers with local affection, when they appear in forms that are really fafe But as I have been deceived in cases of this and mild. kind, and as the method of giving the bark in the manner recommended for the cure of the more dangerous forms of putrid intestinal remitting fevers with local affection, (vid. L. and Rule I. II. and III.) gives great fecurity, and is attended with no inconveniency to be put in opposition to the advantage; I here, also, recommend it earnestly to every young practitioner, to proceed upon the supposition, that none of these fevers, however mild their appearance, are free of danger, and to treat them, on every occasion where there is the fmallest doubt, as nearly as the circumstances will admit, according to the rules laid down for curing them when

when they appear in forms that are more evidently violent and dangerous.

ART. II.

IN THEIR MORE VIOLENT AND DANGEROUS FORMS.

L

1. Confidering the infectious nature of these severs, it is probable that no constitution whatever is secure or exempted from their attacks; and that they are therefore often produced in the highest degrees of inflammatory diathesis, where there does not exist the smallest tendency to any putrid disorder; and of this I think I have seen many instances in the course of my practice. But, however philogistic the constitution, I have very seldom and almost never, judged it necessary in India, to draw blood when there was no local affection; and have found it sufficient to proceed according to the rules laid down for treating the more violent and dangerous forms of putrid intestinal remitting severs without local affection. On the other hand, when the symptoms

symptoms of inflammation fixed themselves violently and obstinately on any particular part, I have never hesitated (at the beginning of the disease,) to use the lancet; especially if they did not yield to the remedies that are recommended at this time. The lofs of blood, both general and local, is very effectual in removing these partial affections; and, when it fails, it prepares the way for a freer exhibition of opium to alleviate the pain, and of bark to suppress the fever; by the violence of which, these partial affections are often supported and aggravated, more than by any topical cause. When the local affection proves so obstinate as to resist all ordinary means, blifters are then applied to, and produce often furprifing effects. But, fince I began to regulate my practice by the rules which I have fo fully explained, I have feldom had occasion to employ them; and I have confidered it as an improvement of some consequence, independent of its success, to be able to avoid fo painful a remedy.

From these reflections we deduce the following general rules for curing the more violent and dangerous forms of putrid intestinal remitting fevers with local affection.

RULE I.

That they are to be treated exactly according to the general rules laid down for curing the more violent and dangerous forms of putrid intestinal remitting fevers without local affection.

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RULE II.

That the whole body, and especially the parts affected, are to be more carefully defended from cold than when there is no local affection; and other means used to promote a general perspiration.

RULE III.

That bleeding and bliftering are to be administered when indicated by the violence and obstinacy of the local affection; especially when it is seated in any vital or important part; taking care to obviate the failure of the general strength, which is apt to succeed the loss of blood, by an immediate exhibition of the bark, wine, and nourishment.

SECT. III.

OF THE VARIATION REQUIRED IN THE TREATMENT OF PUTRID INTESTINAL REMITTING
FEVERS, BY THE CHANGES PRODUCED IN
THEIR NATURE AND TENDENCY AT THE EQUINOCTIAL PERIODS, AND INTER-EQUINOCTIAL
INTERVALS.

LI,

terms, that the variation which we have spoken of, at the equinoctial periods, particularly the autumnal, and its respective inter-equinoctial intervals, seem to suggest no other alteration in the mode of treating putrid intestinal remitting severs at these times, except, perhaps, a more or less expeditious and vigorous application of the means we have already recommended in the foregoing rules.

P. I. N. I. S. . I

THE following application of these general observations to the cure of a Putrid Intestinal Remitting Fever, with an Affection of the Bowels, or,
in other terms, a Dysentery, is here annexed, because it has been found to be singularly successful in
a disorder, which is, above all others, destructful to
Europeans in warm climates; and may, at the
same time, serve in some degree to illustrate the tenor of our practice in every kind of Putrid Intestinal Remitting Fever, whether with or without
local affection.

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I.

B. Tart. Emet. gr. iv. folve in

Infus. Fruct. Tamarind. cum Man. lib. ij. et

Sign. The emetic folution to be used instantly upon the first appearance or apprehension of the disorder, and to be given in small wine glassfull's, every half hour, until it has operated freely, both upwards and downwards. A find the the dies and guites

ecter hadas, a Delegher, is here anasach lees

& Calomel. gr. viii. Opii Pur. gr. ii.

Syr. Cois. q. s. u. f. pit. No ij. et

Sign. A dose of calomel to be given at bed-time (8 o'clock) on the first day of the disorder, and to be continued for 4 or 5 nights following, or longer, if the bilious and putrid nature of the stools should feem to require it; and to be repeated at any time in the course of the disease, when judged necesfary *. The

In common cases of the remitting putrescent fever, without dysenteric symptoms, I omit the opium; and, The opium is united with the calomel, not only to make it fit on the stomach, but to procure rest.

The quantity may therefore be increased at pleafure, to secure this effect, and the opiate must be continued every night after the calomel is intermitted.

III.

and, for several years past, it has been my practice to give from 5 to 8 grains of calomel, with an addition of 8 or 10 grains of extractum catharticum, or some such purgative, for a dose, to be repeated every night, or rather every other night, for sour or sive times, at the beginning of the disorder. And, as the opium, I suspect, interferes with the operation of the calomel, this purgative should likewise be preferred at the beginning of dysenteries, where the gripes, &c. are not severe and troublesome; and where the addition of opium is not absolutely necessary for giving the patient some respite in the night.

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copiem is united with the colorest per entry to

B. Sal. Cathart. Amar. gx.

Mannae. * 3ij. folve in

Aq. Font. lib. ii. et adde

Tart. Emet. gr. i. M. et

Sign. The laxative physic, of which a wine glassfull is to be given every day, from the first attack of the disease, until it begins to give way, at 5 in the morning, and continued every hour until it has operated freely. After the symptoms have begun to abate, it will be sufficient to keep the bowels gently open with smaller doses of the same medicines. But this must be done in the morning daily, through the whole course of the disease.

Castor oil, or any other laxative more agreeable to the patient, may be substituted occasionally. But cas-

n tol y saltona

for

^{*} Honey or sugar may be substituted; but it is much better to make the solution without any of these sweets, and to add them, if they should be required, to cover the taste of the salts occasionally.

tor oil is, above every medicine, useful, when there is much tenesmus and signs of great constriction on the bowels, and then an opiate should be given previously, to make it sit on the stomach.

IV.

B Laud. liquid, gtt. XL.

Aq. Menth. Pip. 3i. m. f. haust. et Sign. The quieting draught * to be given every day 2-bout mid-day, after the evacuation of the bowels has been well effected by the morning laxative; and the dose to be made sufficient for keeping the patient easy, and the bowels in a quiet state, until

In remitting putrescent fevers of every kind, there is no medicine so cordial and sedative as opium. In those unattended with dysenteric symptoms, I have generally contented myself with giving it in smaller doses than is here prescribed, along with the bark or snake-root. But, in all cases, the dose should be made sufficient to remove the restlessness which accompanies these severs, and to compose.

until the time of taking the fecond opiate at bed-

When the rectum is much inflamed, emollient glyffers give great relief; and, if the opiates preferibed should fail in their effect, an additional dose may be given in this form. And let it be recommended strongly to every patient labouring under a dysentery to force himself away from the chair the moment that the facces which occasioned the call are evacuated. The straining that follows is always fruitless, and tends only to instame the rectum still more. But, as the erect posture always increases the tenesmus, the best method of all is to receive the facces upon clothes introduced below the patient, for that purpose.

V.

In the course of the day, the patient must be frequently nourished with panada, made in the manner recommended in the Treatise, and also in the night, if it should be necessary. Gruels, made of rice or oatmeal, are the most proper drink.

VI.

When the fever does not give way in three days to the above treatment,

R. Decoct. Cort. Peru. Fort. lib. ij.

Laud. Liquid. gtt. XL. M. et

Sign. The decoction , of which give 3 ounces every

hour, beginning after the mid-day opiate has fettled

*Whenever I am anxious to suppress the sever immediately, I struct to the bark in substance only; and, when this is the case, the purgative and laxative medicines must be omitted for a day or two, until that be effected. I have prescribed the decoction in this Treatise only because it will be in general more acceptable to dysenteric patients, whose stomachs are delicate.

the night when awake.—When the fever is not alarming, bark is not absolutely necessary to the cure, but it gives great security in every case of fer yer and flux.

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A FORM constructed for recording Cases of Putrid and Interlunar

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A violent Putrid Intestinal Remitting Fever, The Daily Reports and Recipe's.

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Intestinal Remitting Fevers, and marking their Lunds.

A D A M S,

without Local Affection, of 21 Days.

The Lunar and Interlunar Changes.

The fever attacked at 11 A.M. on the 1st day of this period, with the common fymptoms.

In the course of this period the fever increased daily, and rose to its greatest height towards the end.

On the first day of this interval, there was observed an evident abatement or remission in the violence of the fever.

About the middle, and towards the end of this interval, the remission or abatement in the violence of the sever was more considerable than at the beginning.

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N. B. In records intended for use, many more than one line will be required for the Reports and Recipe's of one day. These are only intended to shew the form.

^{*} I explain how this interval comes to contain \$ days, Vid. pag. 42.

About the beginning of this period the fever became again more violent than it had been during the preceding interval.

In the course of this period the fever increased, and was most violent towards the end.

On the commencement of this interval, there was again observed a remarkable remission in the violence of the fever, and in the course of the interval it gradually subsided and disappeared, and did not return with the succeeding lunar period,

N. B. These remarks are only inserted as examples to shew the use of the form; but any other of this kind may be inserted at pleasure.

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